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то:	Mr. Jason D. Prone (Examining	Attorney)	•	
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DATE:	August 13, 2004	TIME:		
FROM:	David C. Jenkins	DIRECT DIAL:	412/566-1253	

TOTAL PAGES (including cover): 43

MESSAGE:

RE: Applicant: William George Alton
U.S. Patent Application Serial No. 10/008,820
entitled: Bandsaw Blade With Cutting Extensions
(Our Ref. 287108-00001)

Attached is a copy of Appellant's Brief on Appeal as filed on April 9, 2004 for the above-captioned application.

David C. Jenkins/jlj

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U.S. Patent Application Serial No. 10/008,820, filed 11/13/2001 entitled "Bandsaw Blade With Cutting Extensions" (Attorney Docket No. 287108-00001)

Attached is a copy of APPELLANT'S BRIEF ON APPEAL and date-stamped return postcard for the above application.

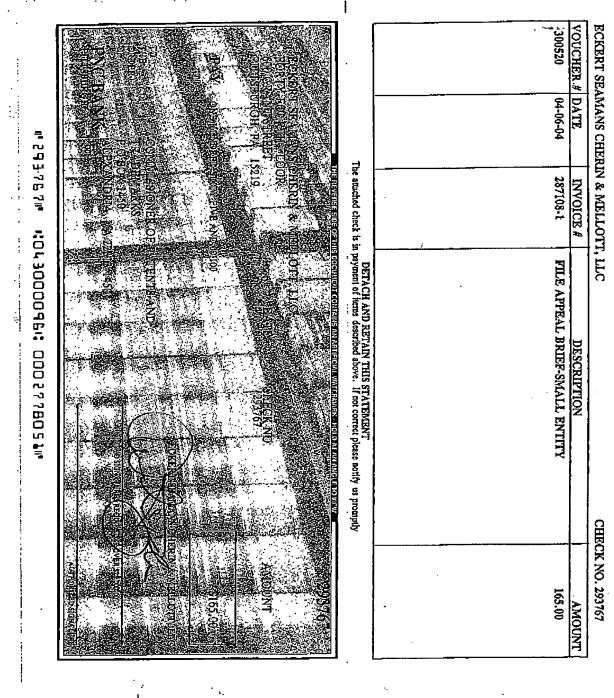
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OFFICIAL

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Patent Examiner: Jason D. Prone

: BANDSAW BLADE WITH CUTTING

: EXTENSIONS

Group Art Unit: 3724

In re application of:
WILLIAM GEORGE ALTON

Serial No.: 10/008,820

Filed: November 13, 2001

: Attorney Docket No. 287108-00001

#### APPELLANT'S BRIEF ON APPEAL

April 9, 2004

Commissioner For Patents
MAIL STOP APPEAL BRIEF - PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This is an Appeal from the decision of the Examiner, dated November 11, 2003, rejecting Claims 1-4, 15-17, and 19 and objecting to Claims 5, 8, 9, 12 and 18 of the above-identified application. The claims are set forth in Appendix 1, which is attached hereto. Due to the specific nature of the issues involved in this Appeal, an Oral Hearing is not deemed necessary and is not requested.

#### Real Party In Interest

The real party in interest is the inventor, William George Alton.

#### Related Appeals and Interferences

There are no other appeals or interferences known to Appellant or to Appellant's legal representative which will directly affect, be directly affected by, or have a bearing on the Board's decision in the pending appeal. Appellant has, however, petitioned the Commissioner to withdraw the restriction requirement.

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#### Status of the Claims

Claims 1-4 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Tsujimoto (U.S. Patent No. D438,549).

Claim 15 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Tsujimoto in view of Kullman (U.S. Patent No. 5,477,763).

Claims 16, 17 and 19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tsujimoto* in view of *Kullman* as applied to Claim 15, and further in view of *Stoddard* (U.S. Patent No. 5,606,900).

Claims 5, 8, 9, 12 and 18 stand objected to as being dependent upon a rejected base claim.

#### Status of the Amendments

There are currently no amendments to the pending claims. The claims as they stand on Appeal are contained in the Appendix 1 to this Brief.

#### The Invention

The present invention provides a bandsaw blade having un-set teeth, each tooth having a cutting extension. The cutting extension extends beyond the height of the tooth body. An individual cutting extension has a width less than the width of the tooth body, but the total width of the cutting extensions in a group of teeth is the same as, or greater than, the width of the teeth. The cutting extensions are positioned on the teeth in a group so that outer edges of the one cutting extension are generally aligned with the outer edge of a cutting extension on another tooth or aligned with the outer edge of the tooth. Thus, the centerline of each cutting extensions is not aligned with another cutting extension in the group. As used herein, "aligned" means aligned as viewed along the longitudinal axis of the bandsaw blade.

Preferably, the cutting extensions within a group are each the same width, e.g., ? the width of the tooth. The cutting extensions within a group of teeth are positioned so that each tooth is located over a different portion of each tooth in the group. Thus, in a three-tooth group, each extension is ? the width of the tooth. One extension is located over the left most third of one tooth, a second extension is located

over the center third of another tooth, and a third extension is located over the right third of the remaining tooth. Generally, if there are "n" teeth in a group, each tooth has an extension that is 1/nth the width of the tooth.

Alternatively, a single tooth may have more than one extension so long as the total width of the sum of the widths of the extensions is generally equal to or greater than the width of the tooth body. For example, in a two-tooth group, the first tooth may have a centrally located extension that is  $\frac{1}{2}$  the width of the tooth body. The second tooth in the group has two extensions, each being about  $\frac{1}{2}$  the width of the tooth body, wherein each extension is located adjacent to the outer edges of the tooth. Thus, the total width of the extensions,  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$ , is about the same as the width of the tooth and the extensions are not aligned with each other. As such, in either embodiment, the cutting load on each tooth is about the same.

#### **Issues Presented**

- Whether the Appellant's invention as claimed in Claims 1-4 is anticipated by Tsujimoto.
- 2. Whether the Appellant's invention as claimed in Claim 15 is unpatentable over *Tsujimoto* in view of *Kullman*.
- 3. Whether the Appellant's invention as claimed in Claims 16, 17 and 19 is unpatentable over *Tsujimoto* in view of *Kullman* as applied to Claim 15, and further in view of *Stoddard*.

#### Grouping of Claims

Claims 1 and 15 each stand separately. Claims 2-4 stand or fall with Claim 1. Claims 16-19 stand or fall with Claim 15.

#### **Argument**

#### Claims 1-4, Rejected Under 35 U.S.C. § 102(e)

Claims 1-4 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Tsujimoto (U.S. Patent No. D438,549). Initially, the difference between set teeth and unset teeth must be understood. "Set" is defined as "to bend slightly the tooth points

•

of (a saw) alternately in opposite directions." See, Merriam-Webster Online Dictionary at http://www.m-w.com/cgi-bin/dictionary?book=Dictionary&va=set&x=17&y=14 (attached as Appendix 2). Teeth are set to resist binding in the channel. That is, by virtue of the teeth being bent in different directions, the channel is wider than the teeth. Conversely, an unset tooth is not bent. Instead, unset teeth utilize different shapes, see, Kullman, U.S. Patent No. 5,477,763 (discussed below), so that each tooth in a group impacts a different portion of the cut channel.

Tsujimoto discloses a band saw blade having a plurality of set teeth. That is, as shown in Figure 2, the teeth are bent to one side, or the other, of the centerline.

Tsujimoto further discloses a blade having teeth that include a cutting surface extending from the back edge of the tooth as opposed to the front edge as is more typical. It is Appellant's belief that this is the structure the Examiner considers an "extension." The cutting edge extends across the entire width of the tooth.

#### As stated in MPEP §2131:

A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.... The identical invention must be shown in as complete detail as is contained in the ... claim.

Id. (citing Verdigaal Brothers v. Union Oil Company of California, 814 F.2d 628, 631 (Fed. Cir. 1987) and Richardson v. Suzuki Motor Company, 868 F.2d 1226, 1236, (Fed. Cir. 1989)). In the present application, it is noted that an "individual cutting extension has a width less than the width of the tooth body." Application at page 3, lines 24-25. Moreover, claim 1 recites "a plurality of unset teeth." Given that Tsujimoto discloses neither cutting extension having a width less than the width of the tooth body nor an unset tooth, it is respectfully submitted that upon reading the Tsujimoto disclosure, one skilled in the art would not consider a device having the elements of the claimed invention.

Independent claim 1 recites a saw blade having a plurality of unset teeth wherein at least some of the teeth have a cutting extension. As this reference does not disclose these elements, the rejection of claim 1 under 35 U.S.C. § 102(e) is in error.

Claim 2 which depends from claim 1, further recites that the sum of the widths

of the cutting extensions is about equal to the width of the teeth bodies. Given that a single "extension" on the teeth of the cited reference is equal to the width of the tooth body, the sum of the widths of the "extensions" would be greater than the width of the teeth. Accordingly, this reference does not disclose the elements recited in claim 2 and the rejection of claim 2 under 35 U.S.C. § 102(e) is in error.

Claims 3 and 4 depend from claim 2 and rely on their dependency for patenability.

#### Claim 15; Rejected Under 35 U.S.C. § 103(a)

Claim 15 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Tsujimoto in view of Kullman (U.S. Patent No. 5,477,763). Tsujimoto is discussed above. Kullmann et al. discloses a bandsaw having unset teeth wherein the teeth do not have a uniform height. That is, there are teeth having a greater height and a narrower width and teeth having a greater width and a lower height. There are teeth with various heights/widths between the two extremes. Every alternate tooth has the lowest height and the greatest width.

Because Tsujimoto discloses a blade having set teeth, one skilled in the art would not consider combining Tsujimoto with Kullman which utilizes unset teeth. That is, one skilled in the art would realize that there is no advantage to having teeth having various heights/widths which are also set to one side or the other. Morcover, as stated in, In re Geiger, 815 F.2d 686, 2 U.S.P.Q.2d 1276 (Fed. Cir. 1987), "obviousness cannot be established by combining teachings of the prior art to produce the claimed invention, absent some teaching, suggestion, or incentive supporting combination" (emphasis added) (attached as appendix 3). Put another way, "the mere fact that disclosures or teachings of the prior art can be retrospectively combined for the purpose of evaluating obviousness/nonobviousness issue does not make the combination set forth in the invention obvious, unless the art also suggested the desirability of the combination ...." Rite-Hite Corp. v Kelly Co., 629 F.Supp. 1042, 231 U.S.P.Q. 161, (attached as appendix 4) aff'd 819 F.2d 1120, 2 U.S.P.Q.2d 1915 (E.D. Wis. 1986) (emphasis added). Similarly, the court in, In re Vaeck, 947 F.2d 488, 20 U.S.P.Q.2d 1438 (Fed. Cir. 1991), stated that "both the suggestion [to make

the claimed apparatus] and the reasonable expectation of success must be found in the prior art, not in the Applicants' disclosure' (attached as appendix 5).

Here, there is no suggestion that the cited references should be combined. In fact, as noted above, the teachings of the references teach away from each other. The *Tsujimoto* reference teaches set teeth. This is in direct opposition to *Kullman* which teaches unset teeth. To introduce bent teeth of *Tsujimoto* would defeat the purpose of the *Kullman* teeth having various heights/widths. As such the combination of these references would not be obvious to one skilled in the art.

### Claims 16, 17 and 19; Rejected Under 35 U.S.C. § 103(a)

Claims 16, 17 and 19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tsujimoto* in view of *Kullman* as applied to Claim 15, and further in view of *Stoddard* (U.S. Patent No. 5,606,900). *Tsujimoto* and *Kullman* are discussed above. *Stoddard* discloses a blade having set teeth followed by a raker tooth. The raker tooth is structured to clean the cut channel between sets of cutting teeth. As before, there is no teaching, suggestion, or incentive supporting combination supporting the combination of these references. Moreover, for the reasons stated above, one skilled in the art would not combine a blade have set teeth with a blade having unset teeth. Accordingly, the rejection of claims 16, 17, and 19 under 35 U.S.C. § 103(a) is improper.

#### · Conclusion

It is submitted that Claims 1-4 are not anticipated by *Tsujimoto*. It is further submitted that Claim 15 patentable over *Tsujimoto* in view of *Kullman*. Is further submitted that Claims 16, 17 and 19 are patentable over *Tsujimoto* in view of *Kullman* and further in view of *Stoddard*. Therefore, it is requested that the Board reverse the

Examiner's rejections of Claims 1-5, 8, 9, 12, and 15-19 and remand the application to the Examiner for the issuance of a Notice of Allowance.

Respectfully submitted,

David C. Jenkins Registration No. 42,691

Eckert Seamans Cherin & Mellott, LLC

600 Grant Street, 44th Floor

Pittsburgh, PA 15219

(412) 566-1253

Attorney for Appellant

1. A saw blade comprising:

a bandsaw body having a centerline;

a plurality of unset teeth disposed on said band body, each tooth having a body with two outer sides defining a width, and a uniform height;

at least some of said teeth having a cutting extension extending above said tooth body height; and

each said cutting extension having two outer sides, said two outer sides defining the width of said extension.

The saw blade of Claim 1, wherein:

said teeth are disposed on said bandsaw body in groups;

each tooth in a group having a cutting extension which does not have a portion of the cutting extension substantially aligned with another cutting extension in the group; and

wherein within each said group, the sum of the widths of said cutting extensions is about equal to the width of the teeth bodies.

- 3. The saw blade of Claim 2, wherein within a said group of teeth, each said cutting extension outer side generally aligns with the outer side of the tooth body or with an outer side of an extension on another tooth within the group.
- 4. The saw blade of Claim 2, wherein within a said group of teeth, each said cutting extension being generally about the same width.
- 5. The saw blade of Claim 3, wherein:
  each said group of teeth includes a plurality of cutting teeth;
  each said cutting tooth having a cutting extension;
  each cutting extension having a width that is about equal to the width of the tooth body divided by the number of cutting teeth in the group.
  - 8. The saw blade of Claim 5, wherein:
    Appendix 1

: 39

said group has four cutting teeth including a first tooth, a second tooth, a third tooth, and a fourth tooth;

each said cutting tooth having a cutting extension with a width that is about one fourth the width of each said tooth body;

said first tooth cutting extension disposed with one outer side aligned with said bandsaw body centerline and said extension extending toward one tooth body outer side;

said second tooth cutting extension disposed with one outer side aligned with said bandsaw body centerline and said extension extending toward the tooth body outer side opposite the tooth body side said first cutting extension extends toward;

said third tooth cutting extension having an outer side aligned with the one outer side of said tooth body and an outer side aligned with an outer side of said first tooth cutting extension; and

said fourth tooth cutting extension having an outer side aligned with the outer side of said tooth body opposite the tooth body outer side aligned with said third tooth cutting extension, and an outer side aligned with an outer side of said second tooth cutting extension.

- 9 The saw blade of Claim 8, wherein said group having four cutting teeth includes a fifth tooth that is a raker tooth.
- 12. The saw blade of Claim 3, wherein: each said group of teeth includes a plurality of cutting teeth; each said cutting tooth having one or more cutting extensions; and wherein the sum of the widths of said one or more cutting extensions on each tooth having cutting extensions is about equal to the width of the tooth body divided by the number of cutting teeth in the group.
  - 15. The saw blade of claim 2 wherein:
    said each groups comprise a plurality of said teeth; and
    one or more groups have a different number of teeth than other said groups.

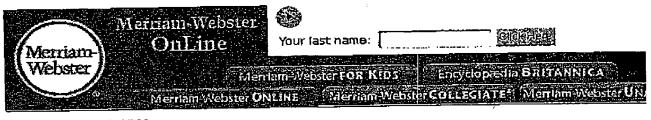
    Appendix 1

- 16. The saw blade of claim 15 wherein at least two groups are separated by a raker tooth.
- 17. The saw blade of Claim 16, wherein within a said group of teeth, each said cutting extension outer side generally aligns with the outer side of the tooth body or with the outer side of an extension on another tooth within the group.
- 18. The saw blade of Claim 17, wherein:
  each said group of teeth includes a plurality of cutting teeth;
  each said cutting tooth having one or more cutting extensions; and
  wherein the sum of the widths of said one or more cutting extensions on each
  tooth having cutting extensions is about equal to the width of the tooth body divided
  by the number of cutting teeth in the group.
- 19. The saw blade of Claim 17, wherein within a said group of teeth, each said cutting extension has about the same width.

Appendix 2

Merriam-Webster Online

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#### HOME .... PREMILIM SERVICES

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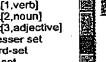




#### Merriam-Webster Online Dictionary

35 entries found for set. The first 10 are listed below. To select an entry, click on it. For more results, click here.

set[1,verb] set[2,noun] set[3 adjective] dresser set hard-set jet set



Main Entry: 1set 49 Pronunciation: 'set Function: verb

Inflected Form(s): set; set-ting

Etymology: Middle English setten, from Old English settan; akin to Old High German sezzen to set, Old English sittan to sit

#### transitive senses

1: to cause to sit: place in or on a seat

2 a: to put (a fowl) on eggs to hatch them b: to put (eggs) for hatching under a fowl or into an incubator

3: to place (oncself) in position to start running in a race

4 a : to place with care or deliberate purpose and with relative stability <set a ladder against the wall> <set a stone on the grave>  $b : \frac{TRANSPLANT}{1} < set seedlings> c(1) : to$ make (as a trap) ready to catch prey (2): to fix (a hook) firmly into the jaw of a fish d: to put aside (as dough containing yeast) for fermenting

5: to direct with fixed attention < set your mind to it> 6 a: to cause to assume a specified condition, relation, or occupation <slaves were set free> <set the house on fire> b: to cause the start of <set a fire>

7 a: to appoint or assign to an office or duty b: POST, STATION

8: to cause to assume a specified posture or position <set the door ajar>

9 a : to fix as a distinguishing imprint, sign, or appearance <thc years have set their mark on him> b : AFFIX c : APPLY <set a match to kindling>

10: to fix or decide on as a time, limit, or regulation: PRESCRIBE <set a wedding day> <set the rules for the Merriam-Webste

Dictionary

Thesaurus



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#### <u> Handheld</u> <u>Collegiate</u>

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4/9/2004

#### Merriam-Webster Online

game>

11 a: to establish as the highest level or best performance <set a record for the half mile> b: to furnish as a pattern or model <set an example of generosity> c: to allot as a task <setting lessons for the children to work upon at home -- Manchester Examiner>

12 a: to adjust (a device and especially a measuring device) to a desired position <set the alarm for 7:00> <set a thermostat at 68>; also: to adjust (as a clock) in conformity with a standard b: to restore to normal position or connection when dislocated or fractured <set a broken bone> c: to spread to the wind <set the sails> 13 a: to put in order for use <set a place for a guest> b: to make scenically ready for a performance <set the stage> c

make scenically ready for a performance <set the stage> c (1): to arrange (type) for printing <set type by hand> (2): to put into type or its equivalent (as on film) <set the first word in italic>

\*

14 a: to put a fine edge on by grinding or honing <set a razor> b: to bend slightly the tooth points of (a saw) alternately in opposite directions c: to sink (the head of a nail) below the surface

15: to fix in a desired position (as by heating or stretching)
16: to arrange (hair) in a desired style by using implements
(as curlers, rollers, or clips) and gels or lotions
17 a: to adom with something affixed or infixed: STUD,
DOT <clear sky set with stars> b: to fix (as a precious stone) in a border of metal: place in a setting
18 a: to hold something in regard or esteem at the rate of
<sets a great deal by daily exercise> b: to place in a relative rank or category <set duty before pleasure> c: to fix at a certain amount <set bail at \$500> d: VALUE, RATE <their promises were set at naught> e: to place as an estimate of

worth <set a high value on life>
19: to place in relation for comparison or balance <theory set against practice>

20 a: to direct to action b: to incite to attack or antagonism <war sets brother against brother>

21 a: to place by transporting <was set ashore on the island> b: to put in motion c: to put and fix in a direction <set our faces toward home once more> d of a dog: to point out the position of (game) by holding a fixed attitude
22: to defeat (an opponent or a contract) in bridge
23 a: to fix firmly: make immobile: give rigid form or condition to <set ber jaw in determination> b: to make

23 a: to fix firmly: make immobile: give πgid form or condition to <set her jaw in determination> b: to make unyielding or obstinate

24: to cause to become firm or solid <set milk for cheese>

25: to cause (as fruit) to develop

intransitive senses

1 chiefly dialect : SIT

2: to be becoming: be suitable: FIT < the coat sets well>

3: to cover and warm eggs to hatch them

4/9/2004

Appendix 3

tioners were temporary, and if so (2) whether the petitioners were nonatheless intitled to compete for these positions since 6 the Board must determine (1) whether the positions sought by the petihey involved functions that were transferground that agency gave for decision). firm agency determination, if at all, red to the new agency. remand,

If the Board should conclude that these three petitioners were entitled to those poitions in place of the persons to whom the positions were assigned, the Board then of entitlement among petitloners Acerno, Anderson, and Walson to the two positions Only two of these petitioners could have been entitled to the two posktions all three of them are seeking. *Gr.* Former *CSA* Employees, 762 F.2d at 984. will have to determine the relative priority Involved.

### CONCLUSION

employees seek were temporary and, if they were, (2) whether the petitioners nevertheless are entitled to these positions AFFIRMED IN PART, REVERSED IN ration of Mr. Pizzi, Ms. Hudgins, and Ms. are remanded to the Board to determine (1) whether the two positions these former because they are "transition" positions. Filgrim are affirmed. The Board decisions sustaining the separations of Mr. Acemo. Ms. Anderson, and Ms. Watson are reversed, and the cases of those petitioners The Board decisions sustaining the sepa-PART, AND REMANDED.



This opinion issued as an unpublished opinion on December 11, 1986. On request of counsel

In re Gary E. GEIGER. Appeal No. 86-1103.

United States Court of Appeals,

Federal Chruit.

April 1, 1987.

ing scale formation on and corrosion of The Court of Appeals, Archer, Circuit Judge, held that prima facte case of obvi-Applicant appealed decision of Patent peals and Interferences, which affirmed examiner's rejection of claims, on basis of metallic parts in cooling water systems. and Trademark Office Board of Patent Apobviousness, relating to method of inhibitousness was not established.

Reversed.

Paulhe Newman, Circuit Judge, concurred and filled opinion.

Inited States Patent and Trademark Office PTO Board of Patent Appeals and Interfirming the examiner's rejection of all remaining claims, 48-63 and 65-67, in appellant's patent application, Serial Number 378,903 ('903), under 35 U.S.C. § 103. We

This is an appeal from a decision of the

ARCHER, Circuit Judge.

Before NEWMAN, Circuit Judge, SKELTON, Senior Circuit Judge, and

ARCHER, Circuit Judge.

1, Patents @118(6)

Standard of review for conclusion of obviousness is correctness or error as a matter of law. 96 U.S.C.A. § 103,

2, Patents @16.6

combining teachings of prior art to produce Obviousness cannot be established by claimed invention, absent some teaching, suggestion, or incentive supporting combination, 86 U.S.C.A. § 103.

Patenta C18.35

have made it obvious to one skilled in art to try various combinations of known scale and corresion prevention agents disclosed, but were insufficient to establish obvious: by use of compositions containing sulfonated styrene/malete anhydride copolymer, phosphorus acid compound or water soluble salt thereof, disclosures in prior art referenced in instant patent application may various combinations of known scale not estabilated with respect to method of phibiting seals formation on and corresion of metallic parts in cooling water systems water soluble zine compound, and organo-Prima facte case of obviousness was

for appellant, it is now being reissued as a published opinion.

ness, in absence of some suggestion in and U.S. Patent No. 4,256,269 Hwa, et al. (Hwa). Che se #13 F.3d 484 (Fed. Ctr. 1947)

prior art supporting combination which re-

5 103,

Saued

587

of, arganic phosphoric acid estars and water soluble sales thereof, and polyvalent component may contain maleit acid and the specific copolymer, SSMA, required in The li patent discloses use in cooling water systems of scale and corrosion prevention compositions comprised of a polymeric component in combination with one or more compounds selected from the group consisting of inorganic phasphoric soids and water soluble sales thereof, phosphonic acids and water soluble salts theremetal salta. Although the li polymerk styrene monomers, there is no disclosure of applicant's claims. sulted in Instant method, 36 U.S.C.A. Bruce E. Peacock, Belg Laboratories, Inc., Trevose, Pa., argued, for appellant. ទ seph F. Nakamura, Sol. and Fred E. McKel-

lice of the Sol, Arilngton, Ya., argued, for appellee. With him on the brief, were Jo-

Robert D. Edmonds, Associate Sol.,

systems shave a common problem in regard to scale deposit formation and that use of er and another polymeric component, which SMA to prevent scale in boiler water sys-The Snyder 733 patent discloses a method for treating cooling water systems prone to scale formation by the addition of a composition comprised of an acrylic may be SSMA or a styrene/maleic anhy-The Snyder 133 patent notes that boller and cooling water scid/lower alkyl/hydroxy scrylate copolym dride (SMA) copolymer. tema is known. ferences (board), Appeal No. 606-09, af-

The Hwa patent is directed to a method prone to scale formation by addition of a composition comprised of SSMA and an for treating boiler water systems that are organo-phosphorus acid compound. : :j

The remaining references, cited with re-

compositions containing (1) a sulfonated styrene/malele anhydride (SSMA) copolym-

1862, is directed to a method of Inhibiting scale formation on and corrosion of metallic parts in cooling water systems by use of

application, filed on May

Beckeround

OPINION

er, (2) a water soluble zinc compound, and

(8) an organo-phosphorus acid compound or In its decision dated February 7, 1986,

water soluble salt thereof.

composition used in the claimed method is sination for their known functions and to optimize the amount of each additive. The no suggestion to use SSMA, the specific that each of the three components of the conventionally employed in the art for treating cooling water systems, the board held that it would have been pritha facte obvious, within the meaning of 35 U.S.C. 103, to employ these components in comoosrd further held that data appearing in spect to certain dependent claims, contain copolymer recited in the appealed claims. Based upon the prior art and the fact

> llons under 35 U.S.C. \$ 103, fluding that the claimed subject matter would have

tions of references, but with rallance primarily upon U.S. Patent No. 4,209,398 isaned to II, et al. (II), U.S. Patent No. 4,874. 733 issued to Snyder, et al. (Snyder 1789)

been obvious in yiew of various combins-

the board affirmed the examiner's rejec-

cishms 47 and 49.

i. Hwe was cleed only with respect to dependent

PAGE 21/43 \* RCVD AT 8/13/2004 10:02:14 AM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/1 \* DNIS:8729306 \* CSID:412 566 6099 \* DURATION (mm-ss):19-14

815 PEDERAL REPORTER, 24 SERIES

appellant's specification, and supplemented by a declaration submitted pursuant to 37 C.F.R. § 1.132, provided insufficient evidence of nonobviousness to rebut the prima ucia casa.

### /sames

Whether the board erred in finding that prima facle case of obviousness was esusblighed.

2. Assuming that a prima facia case of obviousness was established, whether the hoard erred in fluding that appellant's objetive evidenco with regard to unaxpectad results was insufficient to rebut that prima facie cuse,

### Analysis

of isw. In To Caverey, 761 F.2d 671, 614, 226 USPQ 1, 8 (Fed.Gr.1885); In to De-Blonwe, 738 F.2d 699, 708, 222 USPQ 191, based upon the factual inquiries mandated ğ 86 S.Cl. 684, 15 L.Ed.2d 546; 148 USPQ 459 Bouseh & Lomb, Inc. v. Barnes. 230 USPQ 416, 419 (Fed.Ch.1986), For a conclusion of obviousness, the standard of Graham a John Deare Co., 383 U.S. 1, Hind/Hydrocurve, Inc., 796 F.24 443, 447. review is correctiness or error as a matter Obviousness is a question of 195 (Ped.Cir.1984).

combinations of known scale and corrosion prevention agents, including the combinato establish a prima facte case of obvious. was erroneous. Appellant argues that the struction or, at best, established that it would have been "obvious to try" various ness and, consequently, that the board's affirmance of the examinar's rejections PTO's position represented hindsight recon-Appellant contends that the PTO failed tion recited in the appealed claims.

case of obviousness. Obviousness entired of the prior art to produce the claimed efiore Hospital, 132 F.2d 1612, 1577, 221 [2,3] We agree with appellant that the PTO has falled to establish a prima facte be established by combining the teachings invention, absent some teaching, augges tion or incentive supporting the combination, ACS Hospital Systems, Inc. v. Mon-

USPQ 829, 938 (Fed.Cir.1984). We are convinced that the latter are not present here.

SSMA could prevent precipitation of the sine. (II) ion in alkaline cooling water in the to use SSMA in combination with an orgacharacteristics may atgnilleantly differ from those in Hwa's boller water system. Hwa also provides no suggestion that manner ascribed to the polymeric comporespect to claims 47 and 49, Hwa does phosphorus acld compound. It provides, however, no suggestion to add a zinc compound to its disclosed combination of SSNA and organo-phosphorus acid compounds, or no-phosphorus acid compound in the treatment of a cooling water system, where the ymer, to prevent scale formation. With declose the specifically-recited organoble compounds and precipitating..." Alit is for the purpose of showing that it, or lymers, may be used in combination with yet another polymeric component, an acryb Il notes that it is difficult to maintain a predeterminad concentration of polyyalent metal lone, such as the zinc (II) lon, in aikaline cooling water, but states that its claimed polymeric component prevents the "polyvalent metals from becoming insoluthough Snyder '733 discloses use of SSMA, one of three other specifically recited copoig seld/Jower alkyl/hydroxy serylsts copoli does not suggest use of SSMA as its claimed polymeric component and does not require the presence of an organo-phosphorus acid compound or of a sinc compound. hent of II.

At best, in view of these disclosures, one skilled in the art might find it obvious to However, this is not the standard of 36 U.S.C. I 102. In re Goodwin, 576 F.2d 376, 377, 198 USPQ 1, 3 (CCPA 1978); In re Antonie, 659 F.2d 613, 195 USPQ 6 try various combinations of these known (CCPA 1977); In re Tombinson, 868 F.2d scale and corrosion prevention agenta. 828, 160 USPQ 623 (CCPA 1986).

obviousness, we need not reach the issue of Because we reverse on the basts of fallure to establish a prima facie case of the aufficiency of the showing of unex-REVERSED pected results

The second of th

(E.D. Wls, 1981),

fng Ca. 1 1033–34 held.

The applicant, in rebuttal of the PTO's Cli as \$13 P.34 666 (Fed, Ofr. 1957) IN RE DEICER Circuit Judge, PAULINE NEWMAN,

trols the evidentiary procedures and bur-I agree in the court's result, but respect-fully do not share the view that the PTO not present a prima facio case that the cialmed invention would have been obvious in terms of 85 U.S.C. § 103. I write sapaer a prima facio case of obviousness has been made is a critical decision that conrately because the determination of whethdens before the PTO.

was known to use tint ions sione or in copolymer component (2) is different. There is no teaching of SSMA in the li other polymers to control scale in cooling I'wa does not use zinc ions, and it is known that sinc lons produce undesirable results in bollers, but the il reference states that it combination with organo-phophorus acids or eakls to inhibit corresion in cooling wenent system to control scale and corrosion being (1) rinc ions, (2) a copolymer of suifo-nated styrene and maleic anhydrids or salt. A three-part system is described in the H reference for the same purpose, but differs from applicant's system in that the reference. However, the Snyder '733 reference teaches SSMA in combination with water systems. The use of SSMA in cooperation with phosphonate is known to reduce scale and sludge in bollers (Hwa). The claims are directed to a three-compoin cooling water systems, the components (SShia), and (3) an organo-phosphorus acid

tors such as those taught by II, and demonthe improvement in corrosion and scale control achieved with the SSMA combination. He also demonstrated that neither polymastrated that those systems did not provide 1260, 1264 (Ped.Cir,1994). rus compound and sine ions, both known Board so prima facte obvious to replace the polymer component of Is with the known scale inhiing water systems. *In tr Kerkhove*n, 626 F.2d 846, 860, 206 USPQ 1069, 1072 (CCPA Thus each of Gelger's three components has been described, separately or in partial combination, for use in cooling water 135. tems. In my view, it would have been bitor SSMA, or to add an organophosphocorrosion inhibitors, to SSMA to achieve both scale and corrosion resistance in cool-1980); Minnesota Mining & Manufactur-Co. 11 Ansul Co., 213 USPQ 1024

....

ganophosphorus compounds. Ha also comtaining other known polymoric scale inhibiing was reasonable and sufficient. He compiled with the requirement that the comparative showing "must be sufficient re Johnson, 147 F.26 1455, 1461, 223 USPQ demonstrated the exceptional corrosion inhibition achieved with his three-part system in comparison with systems containing the known corrosion inhibitors the lon and orpared his combination with systems conit would have been of actentific interest to to permit a conclusion respecting the relative effectiveners of applicant's claimed compounds and the compands of the closest prior art," In re Payne, 606 F.2d 303, 316, 203 USPQ 246, 256 (CCPA 1919), and must "provide en adequate busis to support a legal conclusion of unobylousness. Ta The applicant of applicant's system; this was not dis-puted. The Board nevertheless held that the prime facts case was not rebutted because the applicant did not include deta showing the properties of SSMA alone, I agree with the Board to the extent that ons combinations of components, including data comparing the applicant's three-part part systems containing other preferred stating that "the superior performance of such compositions may be due to the superiority of SSMA visavis the other scale include auch data. However, as a matter of law I believe that the applicant's showthis argument the applicant relied on exper-The specification contains data on the corrosion/scale control capability of varisystem containing SSMA with other threescale-preventing polymers of the prior art. These data showed significant superlority prima facle case, argued that his three-comand that the superiority was not obvious in view of the cited references. In support of ponent system exhibits superior properties inental data in the specification. preventing copolymers."

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DECISIONS WITHOUT PUBLISHED OPINIONS

# 816 FEDERAL REPORTER, 24 BERIES

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leic anhydrica nor sulfonated polystyrane had the same effect on corrosion resistance as did the SSMA copolymer.

that the cialmed invention be compared with subject matter that does not exist in to create prior art, nor to prove that his hyventlon would have been obvious if the Applicant compared his system with the most relevant prior art. It is not required prior art were different than it actually The applicant is not required the prior art.

The Board also upheld the examiner's additional rejection that it would have been that zinc lon is not usable at high temperaobvious to add sinc ion to the two-component SSMA/phosphonate system of Hwa. the Hwa system is for the reduction of scale and sludge at the high temperatures of steam boilers, and it was uncontroverted not contradict this position on its scientific Applicant provided data showing that the Hwa system is relatively ineffecive in a cooling system. The Board did

phonate (Hwa) alone, SSMA/tine, and phoscompared SSMA/phashis three-component phonabe/time, with applicant Z,

results that the These results are sufficient in themselves to rebut a prima facie case of obviousness. See In re De Blauwe, 736 F.2d 699, 705, 222 USPQ 191, 196 (Fed.Cir. Perform held showed "superior and achieved Board

Turning to the rejection on the breadth of the claim language, the limitations in the claims appear to be reasonably commensurate with the disclosure. Although I do not agree with the applicant that it is incumare illustrative of the limitations described 668 F.2d 1008, 1017, 184 USPQ 187, 185 sent on the Commissioner to offer "technical evidence", applicant's specific examples in the specification, and are not in them-(CCPA 1977); In re Goffe, 542 F.2d 684, 567, 191 USPQ 429, 491 (CCPA 1976). solves further limitations. In re Johnson



# UNITED STATES COURT OF APPEALS

### First Circuit

# DECISIONS WITHOUT PUBLISHED OPINIONS

Appeal from and Citation (if reported) D.Mass.	D.P.R.	D.N.K.	D.P.R.	D.Me.	D,Me.	D.Me.	D.R.J.	D.P.R., 637 F.Supp. 426	D.Mais.	D.X.X.	LN.S.	D.P.R., 649 F.Supp. 1083	D.Mc.	D.Y.K	D.R.I.		D.Mall., 619 F.Supp. 1013	D.Mass.	D.Me.	D.P.R.	D.Mass., 629 F.Supp. 540	D.P.R.	D.Mass.	D.P.R., 631 P.Supp. [023
<u>Dipolition</u> Denied	VACATED AND REMANDED	DISMISSED AND REMANDED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	AFFIRMED	APPIRMED	AFFIRMED	AFFIRMED	ORANTED; VACATED AND REMANDED	DISMISSED	APPIRMED	DENIED	AFFIRMBD	-	DISMISSED	<b>AFFIRMED</b>	DENIED; DENIED; AFFIRMED	DISMISSED	AFFIRMED	AFFIRMED	DENIED	Affirmed
<u>Date</u> 1/5/67	1/1/87	1/1/87	1/8/87	1/8/87	1/8/87	1/8/83	16/6/1	1/30/81	1/17/83	1/23/87	1/29/87	1/33/81	2/3/87	2/4/87	2/10/87		ンジンの	1/13/87	2/18/87	1/25/87	1/4/87	1/4/87	3/6/87	3/10/17
Docket  Number Wells Real Entate, Inc., for 86-2145	Health and Human Services 36-1357	While v. Town of Oliford86-1844	Filardi v. Zamora86-1471	U.S. v. Baronow	U.S. v. Moatt	U.S. v. Bellino	U.S. v. Campos 36-1699	Amelunxen v. University of Puerto Rico	Corrers v. Anderson 86-1714	U.S. v. Landsu	Khan v. LM.S	International Ladies' Garment Workers' Union v. Ball Co 86-2065	Pallon, in re 56-1159	U.S., In re	Walcahojian Resily Carp. v. Delvicario	Sheet Metal & Air Conditioning Contractors Ass'n of Bidg. Trade Employees Ass'n v.	Ass'n, Local Union 17	Cavenaugh v. U.S	Robbins v. City of Auburn, Ma 86-1830	Foot. In re	Collins v. Ex-Celto Corp. Co 86-1315	Cruz v. Servency of Health and	C-transfer for the	Charles v. West Indies Transport 86-1427

: 3)

Appendix 4

629 FEDERAL SUPPLEMENT

Rights Act of 1864, the Florida Human be posted conspicuously in Defendant's iself. Moreover, a copy of this order shall nation with all of his employees and Inform all amployees that racial harassment and discrimination violates Title VII of the Civil Relations Act, and the policy of defendant certificate of completion, algned by the indiridual or organization providing such training for each employee attending. The general manages shall raise affirmatively the subject of racial harassment and discrimihuman resource development training classes as soon as practicable and shall notify this Court of compliance by filing and equal employment opportunity related

priate distipline directed at the offending party. Further, defendant shall seek to generally develop other means of prevent erimination, including warnings and approbe required by this grievance procedure to promptly take all necessary staps to investigate and correct any harassment or diswith counsel for pisintiff and provided to whereby harassed employees may complain to the general manager immediately and confidentially. The general manager shall harsesment is eradicated. This grievance procedure shall be written in consultation all smployees. It shall establish a system Further, the defendant shall institute a grievance procedure in accordance with its own policy manual which shall be designed to swiftly and effectively assure that rackal ing harasament in its work place. Bundy, at 947.

The Court retains jurisdiction to monitor this injunction, upon proper motion, to anure that no discrimination occurs in the

costs of this action and to reasonable attorto award reasonable attorneys' fees and neys' fees. The Court retains jurisdiction (14) The plaintiff shall be entitled to all

bern & Associatés, Inc., Todd Equipment Corporation, U.S. Materials Handling Corp., John L & Associates, Inc. ing Dock Equipment Co., Inc., McCormick Equipment Company, Inc., Metro Dock Specialists, Inc., Mid.Atlantic Handling Systems, Inc., Nichaus Industrial Sales, Inc., Northway Material Handling Co., Inc., Rice Equipment Co., Stokes Equipment Company, Inc., Timand Stordox Equipment Co., Plaintiffs ding Co., Applied Randling, Ino., C & Leguipment Corporation, W.E. Carlment Company, Inc., Johnson Souly-King Industrial Equipment, Inc., Load. negring & Sales Co., Inc., Indy Equipment Co., Keller Equipment Co., Inc., Corporation, R.B. Curiin, Inc., Equipment Systems, Inc., Great Northern Industrial Prod., Inc., HOJ Engl-Dock Specialists, Inc., Alifed Equipment Corp., Anderson Material Han-CORPORATION, 

KELLEY COMPANY, INC., Defendant. CIY. A. No. 83-C-134.

United States District Court, March 5, 1986.

for patent, involving restraining device used to hold truck in place while being injunction pending appeal would expire within 80 days of filing date of decision and was valid and infringed, but (2) stay of order unless notice of appeal was filled Chief Judge, held that: (1) asserted claims tosded or unloaded from a toading dock Action was brought for parent intringoment. The District Court, Reynolds, within that period,

Order in accordance with opinion. See also, 29 F.R.D. 332.

"as a whote" in detarmining obviousness is Fallure to consider claimed invention An error of law. 85 U.S.C.A. \$ 103. 1, Patenin mich.

RITE-HITE CORP. V. KELLEY CO., INC. Cite as 429 P.Supp. 1042 (E.D.Win, 1986)

1043

1. Patents 0=314(5)

Determination that a claimed invention is "anticipated" under 36 U.S.C.A. § 102 is a factual determination.

ng level of "ordinary skill in the art,"

factors to be considered in determin-

2. Palents Dif.6

when considering obviousness of an itwenilon, may include educational level of one of ordinary skill, types of problems encoun-

8. Patents @-72(1)

prior art reference, or that claimed inven-tion was previously known or embodied in single prior art device or practice. 35 U.S. or Implicitly described under appropriate previously known or embodied in single claim was anticipated must show that each and every element of patent claim is found, as arranged in the claim, either expressly principles of inherency, in single prior art reference, or that claimed invention was Party which seeks finding that patent C.A. \$ 102 tered in the art, prior art solution to those problems, rapidity with which innovations are made, and sophistication of the technolagy, not all of such factors need be considered in every case, and one or more factors may predominate or be given more weight in a particular case, 35 U.S.C.A. prior art can be retrospectively com-Mere fact that disclosures or teachings

. : ``

9. Patents @=312(1)

ness/nonobylousness issue does not make the combination set forth in the invention obvious, unless the art also suggested desirability of the combination, Inventor's beneficial results, or advantage to be derived from combining the teachings. 35

ployees are customarily posted for a period of sixty (60) days. Any employee seeking a copy of this Order shall be provided with

workplace in locations where notices to em-

bined for purposes of evaluating obvious

3. Patents 4-16.5

doctrine of equivalents as well as to literal fringement by a preponderance of the evidence extends to infringement under the Burden of patent owner in proving ininfringement 36 U.S.C.A. § 271(a).

10. Patente @226

Objective evidence of nonobylousness of an invention includes whether patented invention fulfills long-felt need in industry to which it applied, whether others tried and falled to meet the need which the invention ultimately satisfied, whather the pacented invention met with substantial success upon its intraduction to the market, and whether the accused intringer recognized that the invention was truly meritori

4. Putenis 436,1(8, 4; 6), 86.2(1)

U.S.C.A. § 103.

and has what is patented been made, used, issus of infringement of a patent rafis es at least two questions: what is patented or sold by another. 36 U.S.C.A. \$ 271(a)

11. Petents \$256.6

In patent infringement action, patent claims measure invention and define boundarles of patent protection, 35 U.S.C.A (e)(1,2)

12. Patents \$26.6

ous. 36 U.S.C.A. \$ 103 5, Pigente 436,1(5)

If attegedly infringing product falls literally within patent claim when words are given their proper meaning, intringement of patent is made out, and that is the end of the Inquiry, 35 U.S.C.A. §§ 112, 271(a). alleged infringer thinks of the patent in. alleged infringer is strong evidence of what In determining nonobylousness of pat-

13, Patente \$226.6

suit and is persuasive of what the rest of the world ought to think. 85 U.S.C.A.

ented invention, imitation of invention by

Question of patent infringement is resolved by comparing acqueed device with described in the patent or the patentae's commercial device. 35 U.S.C.A. §§ 112, claims of the patent, not with the structure

To essert that a patent claim is anticipated under 86 U.S.C.A. § 102, a party

6. Palenta Cort2(1)

must demonstrate identity of invention.

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in light of the specification, and both are to be read with a view to secertaining the Claims of a patent are to be construed Invention. 36 U.S.C.A. § 112. 14, Patents 4-167(1)

Each patent claim must be considered as defining a separate invention. 15, Patente 2=165(1)

18, Patents @165(3)

which is the equivalent of that described structure insofer as it performs the stated combinations that utilize any structure Patentea's claim covers all combinations which utilize as the stated means the tructure described in the specification for performing the stated function and also all function. 35 U.S.C.A. § 112.

17, Patents @183(1)

claims in patent, and expert testimony; "means" claim may be determined, 36 cation, prosecution history of patent, other once such factors are weighed, scope of the sidered; language of claim, patent specifi-In construing a "means plus function" ciaim, a number of factors may be con-U.S.C.A. § 112.

18. Patents 0=314(6)

the patent claim in issue is a question of issue as to whether a device is sn equivalent of the described embodiment of fact. 85 U.S.C.A. § 112,

fringsment by mere fact that its invention ter claimed by patent owner or performs additional functions or adds features or is more or lass efficient than subject mat-Alleged infringer cannot escape inan improvement: 85 U.S.C.A. § 112. 19, Patents @ 134, 239, 240

Narrow patent claim limitations cannot Ė read into broader claims to avoid fringement. 36 U.S.C.A. § 112. 29. Patents \$728.9

Claims of a patent are the measure of the protected invention. 35 U.S.C.A. § 112. 21. Petents (=) 55(2)

Patents @ 237

trating a fraud on the patent; the doctrine ls designed to protect a patentae from an iniringer who appropriates the invention even if the infringer avoids the literal language of the claim. 86 U.S.C.A. \$ 112. "Doctrine of equivalents" adds is titude and breadth to application of patent chaim language to prevent infringer from perpe-See publication Words and Phrases or other judicial constructions and

definitions.

pending on the nature of the invention. 35 Range of equivalents to which a patent claim is entitled is on a silding scale de-23. Potents @172 U.S.C.A. § 112.

24. Patenti 🕶 178

atrued liberally and are not to be limited to identical means and mode of operation nificant commercial success or is of the pioneer type, patent claims are to be conshown in the patent. 35 U.S.C.A. § 112. When patented invention has had sig-

seeking suspension

party

make substantial contribution to existing art and patents that consist of combination of old ingredients that produce new and Broad protection is given not only to so-called plonter patents, but patents that unoful results, 85 U.S.C.A. § 112. 25. Patents 5178, 174

26, Putente miles

32. Federal Courts Cotts

62(c), 28 U.S.C.A.

range of equivalents commensurate with the scope of the invention. 26 U.S.C.A. Claims of a patent are entitled to a \$ 112

than that disclosed in specific embodiment of patent does not allow alleged infringer to escape appropriate range of equivalents and thereby avoid intringement of the ponent that may be more sophisticated Mere use by slieged intringer of comclaimed invention. 86 U.S.C.A. § 112. 27. Patents @237

should recover prejudgment interest under 35 U.S.C.A. § 284 in order to prevent infor infringement of its patent, patentee In addition to other relief recoverable 28. Patents 4-319(4)

Stein, Neuman, Williams, Anderson & Olson, Chicago, Ill. and Gilbert W. Church, Foley & Lardner, Milwaukee, Wis., for RITE-HITS CORP. V. KELLEY CO., INC. Cite b1 629 F. Supp. 1042 (E.D.Will, 1986) platntiffs. ringer from having benefit of use of money which it would have been paying in

& Sawall, and Matthew J. Flynn, Quarles & Glenn O. Slarke, Andrus, Sceales, Starke Brady, Milwaukee, Wis., for defendant.

Claims 1, 2, 3, 8, 12, and 13 of patent lavolving restraining device used to hold a

29. Petents -16.14, 235(2)

royalties.

truck in place white being loaded or unload-

ed from a loading dock were valid and

Even though notice of appeal had

30. Federal Courts 4-635

infringed.

DECISION AND ORDER REYNOLDS, Chief Judge.

seek a judgment that a truck restraining that Kelley has competed unfairly by its use of a promotional film, Kelley has patent is obvious in view of the prior art plaintiffs Rite-Hite Corporation ("Rite-Hita") and its independent representatives device manufactured and distributed by deinfringes a patent owned by Rile-Hite, and counterclaimed, alleging that Rite-Hite's and is therefore void, and that Rite-Hits This is an action in patent infringement and unfair competition. Federal jurisdic fendant Kelley Company, Inc. ("Kelley" tion derives from 28 U.S.C. § 1338. has competed unfairly. pend final judgment granting injunction if pending appeal can show that it is likely to conditioned on movant's filing of notice of of judgment 趸 to grant stay of Injunction pending appeal prevall on merits on appeal, it will suffer stay would not substantfally harm other yet been filled, district court had suthority appeal within a specified period. Fed. District court may in its discretion susrreparable injury unless stay is granted,

Rules Civ. Proc. Rule 62(c), 28 U.S.C.A.

31. Federal Courts & 686

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of liability and damages be tried separate. ly, Rike-Lite also applied for preliminary injunctive relief with respect to its claim of The parties have agreed that the issues motional film, and Kelley was enjoined from further use of unexpurgated versions of the film by the Court's order of March 16, 1984. Kelley was subject to this order at the time the traves of lisbility on the patent claims and Keliey's claims of unfair unfair competition respecting Kalley's pro compedition were tried to the Court. cess on the merits on appeal need not be made in order to obtain stay of injunction and grant of stay would cause only alight harm to appelles. Fed Rules Clv. Proc. Rule public Interest. Fed.Rules Clv. Proc. Rule Showing of absolute probability of sucparties to the litigation, and stay is in the pending appeal if injunction would destroy status quo, irreparably harming appellant,

The foregoing claims were tried to the Court between May 20 and May 29, 1985. At the close of the proceedings, I stated: I am persuaded that the evidence compels a decision that the patent is valid it was not obvious. And I am sorry that have to find that the patent was in

Stay pending appeal, without bond, of

33. Federal Courts 4-035

82(e), 28 U.S.C.A.

Patents 4324.1

fringing patent would expire within 30

injunction enfoining competitor from

days of filling date of decision and order granting the Injunction unless notice of ap-

Rules Civ. Proc. Rule 62(c), 23 U.S.C.A. seal was filled within that period.

ė.

willful. I think that the Kelley people, in do not believe the infringement was the apirit of good competition, Rite-Hite came out with a product, and they want ed to meet the product and they did the fringed.

> Jr., Lawrence E. Apolzon & Roger H. "Theodore W. Anderson, Arthur W. Olson,

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of the federal court I think should be could and certainly did not think the evidence compels me to find As far as the unfair competition issues involved, the use of the injunctive powers intend to infringe on that patent, but i that they did.

since we had the dearing on preliminary injunction. I see no reason for the Court in the exercise of its discretion and injunctive powers to be issuing—equity powers, issuing any more injunctions for used very sparingly. I don't think there far as this advertising. The film has not been used for a couple years, or at least is any irreparable injury on either aide as elther side

lows, therefore, are essentially the findings of fact and conclusions of law proposed by plaintiffs with exceptions where a defense objection has been sustained by the Court in whem of the evidence presented at trial be sustained, but that others would direct an outcome favoring the defendant and are not supported by the evidence. What folfendant has objected to certain provisions, and the plaintiffs have responded to the objections. Kelley has also moved for a stay of the Injunction pending appeal, and susded that certain of the objections should proposed findings of fact and conclusions of law, with a period of time allotted to defendant to comment thereon. The plaintiffs have filed their submission, the de-Rite-Nite opposed this motion. I am per-The plaintiffs were then directed to file

# 1. FINDINGS OF FACT

# Parties and Iurisdiction

ness at Milwaukee, Wisconsin. The other exclusive sales representatives throughout poration having its principal place of busipislauffs are Rite-Hito's independent and 1. Plaintiff Rile-Hise is a Wisconsin cor-

the country.

2. Defendant Kelley is also a Wisconsin corporation with its principal place of business at Milwaukee, Wisconsin.

Rite-Hite and Kelley, together, are

dominant factors in the dock leveler indus-

try and have been keen competitors since

has jurisdiction under 28 U.S.C. § 1938(a), and venue lies in this district under 26 ment ariaing under the patent laws of the United States, Title 38 U.S.C. The court 4. This is an action for patent infringe-Ric.Hite was founded in 1965. U.S.C. § 1400(b).

9. For years, dock leveler users and unloading was done manually.

> State of Wisconsin. The court has jurisdiction under 28 U.S.C. § 1388(b). the statutory and common laws of the claims for unfair competition arising under 5. There are also claims and

# History of the Case

unction enjoining use of a motion picture competition count was heard by this Court on February 27 and 28, 1984. A decision was rendered in savor of Rite-Hite on March 16, 1984, granting a preliminary infilm which appeared to characterize unfairas well as with unfair competition. On a preliminary injunction motion, the untair of U.S. Patent 4,373,847 (the '847 patent), 6. This action was initiated in early Rite-Hite charged Kelley with infringement 1983, shortly after the patent-in-sult issued ly Rite-Hita's Dok-Lok product.

truck and the dock,

Dock Specialists, Inc., et al.-have certain under which the other plaintifts—Acme exclusive territorial rights, and (2) whether relate to unfair competition and are men resentatives, and the motion was granted. A trial was held before the Court in this patent owned by the pizintiff Rite-Hite, and Kelley could carry its burden that the '847 patent is invalid. The remaining issues 7. Rite-Hits subsequently filed a motion for intervention on behalf of certain independent and exclusive Rite-Hite sales repaction from May 20 through May 29, 1985. The main issues were (1) whether or not the defendant Kelley has infringed the '849 tioned further below

The second secon

"trailer creep.

# C. Rite-Fite's Background

boards, are devices that automatically or semi-automatically bridge the gap between 8. Dock levelars, or sucomatic docks truck and a dock so that forkill trucks

what similar and equally ineffective "com the problem. Kelley worked on a RITE-HITE CORP, V. KELLEY CO., INC. munication" system, Cite as 629 F. Supp. 1042 (E.D.Wis, 1986) can safely pass over that gap during the ers, in general, have replaced the loose loading and unloading process. Dock level-

pulls away, the end of the dockboard lip that was supported by the truck tends to drop. This, in turn, tends to tip the whole dockboard downwards and pitch the fork. This is because, in normal operation, the in a stationary position on the deakhoard outward or free and of the dockboard resta on the bed of the truck. When the vehicle driver can Buffer severe or fatal injuries even If, when the truck inadvertently separates from the dock, the forklist is parked and is fully supported by the dockboard. lift, its operator, and/or its load onto the 19. In yet another situation, the forkiif driveway. plates that were often used when loading and d cles recognized that a safety hazard existed because of the way that large trucks and trailers, for a variety of reasons, inadvertently separated from the dock during the loading or unloading process. If this happens a forklift can fall through the gap between the truck and dock onto the driveway below, and the manits for the forklift truck and its operator can be catastrophic. 10. For instance, the forkitt truck will shoost always drop to the pavement if, manufacturers as well as regulatory agen-

. .

the Inadvertent separation of the truck from the dock, Kelley developed its "Panic Stop," which was patented in the middle 1960's (DTX-189-8). This device had a ratchet that was engaged to prevent the ty Legs" in the early 1970's which, when not needed, could be pulled away, but when In normal operation, limited the extent to ed a complete solution to the problem, but they clearly recognized the very real hasard and need. In its 1966 patent (DTX-188-8), Kelley acknowledged that dock accidents could result in death and added that the problem of accidental dropping of the ramp "has been a thorn in the side of mechanical dockboards for as long as such board could tip downwards in the event of outward end of the dockhoard from moving downward if the dockboard started to move Rite-Hite also developed its patented "Safewhich the dockboard would descend in this situation. Neither of these devices providboards have been made" (DTX-188-8, col. down abnormally fast. This prevented the further downward progress of the board. 14. To eliminate this latter hazard, dock ers to limit the extent to which the dock leveler manufacturers many years ago de algned safety devices into their dock bevel in part by the dockboard sod in part by the truck. In this situation, there is nothing at all to keep the forklift sod its operator from falling through the gap between the referred to by Kelley and Rite-Hite as parked in a position where it is supported the truck away from the dock can produce disaster. This phenomenon is sometimes when the truck pulls away, the forklift is 11. The forklift truck will also be exposed to this type of accident if it is moving either into or out of the truck or trailer at the time the truck separates from the dock. In such estuations, the driver may not notice the gap and drive the forklift off the truck bed, especially if he is backing up out of the truck. Another hazard exists from sudden accelerations and decelerations of a loaded forklift inside a truck. In this situa tion, a considerable force tending to push

2, lines & 13) late 1960's and early 1970's, Rite-Hite pro-But these were not an adequate remedy for 12. Aware of these life-threstening problems, but lacking a real solution in the rided its only answer at that time, its Total Dock Safety (T.D.S.) Package (PTX-3) which included wheel chocks, a large warnng sign, and a "Dock Safety Rules" sign.

exhibits as "DIX

References to plaintiffe trial exhibits will be identified as "PTX ........." and defendants relai

629 PEDERAL SUPPLEMENT

dard equipment. Kelley's devices were be sold as "options" or whether they should always be made mandatory features disputes between dock equipmant manufacturers. Rice-Bite sold its devices as stan-15. The question of whether the dock-board safety devices described above could on all dock levelers was the subject of seld as options.

time, Wheel thocks were ineffective. Warning and "communication" systems and representative at the meeting, Arthur White, became convinced that these safety stop devices then being offered were an approach to only part of the problem. He concluded that what was really needed was something to restruin the vehicle physically so that it could never move away from the dock inadvertently. No effective device was offered on the market at that Standards Institute (ANSI) Safety Commit-tee MHII was hald in October 1875 to consider, among other things, this question of whether "safety legs" on dock levelers should be options or standsro. During the course of this meeting, Rite-Hite's founder 16, A meeting of American National were likewise ineffective.

### The Development of Vehicle Rostraints at Rite-Hite ä

ies of hanc inventions that Rite-Hite made Rice-Hite introduced its commercial Dok-Lok vehicle restraints, the rest of the lodustry, including Kelley, were skeptics or The '847 patent claims one of a serduring a product development program that lasted for a number of years. After copy is ts.

was long and arduous. Rite-Hite's first vehicle restraint, which was developed by Another device developed shortly thereafter consisted of a pipe clamp type of industrial hook that could be attached to anism mounted on a driveway in front of a was disposed at an angle relative to the stch which held a flexible steel cable and 18. Rite-Hite's development program 1977 but never marketed, involved a mechleading dock. The "engaging machanism" driveway and engaged a part of the truck.

tion that they were designed to perform, i.e., they prevented the truck from insdvertently saparating from the dock. Rite-Bite filled a patent application in October of 1977 for the Hydraulic Securing Device (flexible cable) that ultimately issued as U.S. Patent 4,146,888 on March 27, 1879 (PTX-1b). A physical example of this device was demonstrated at the trial (PTXany holes or crevices in the trailer to hold it in place (PTX-16). The next effort involved a flexible cable and hydraulic holding device (PTX-124). Both of these devices were mounted on the dock pintform. These devices all parformed the same func-3

either on the driveway, where they could be hit by tracks or snowplows, or on the top surface of the leading dock, where they could obstruct traffic or be vulnerable to 19. But these early vehicle restraints had drawhacks. They were relatively expensive, and they were relatively difficult to use. They were also obtrusive and vulnerable to damage because of their location forklift trucks moving about the dock.

Physical exhibits of these devices were also demonstrated at the trial (PTX-17 and along the wall. As the pivoted hook mem-bers refined over several generations, the hook was operable either manually fby a device represented a major advance in the Rite-Hite-filed a patent application which issued as U.S. Patent 4,206,181 (PTX-1d), the vertical face of the dock where it was less of an observation and less likely to be demaged. This device included a "pivoised hook" member. The hook had a shank plyoted to the wall and a right angle hook. driver standing on the driveway) or automatically (with the power of an activated dock leveler). When used, it was pivoted upwardly to an operative mode to engage the truck via the truck's ICC bar. This art of vehicle restraints. Accordingly, 20. By the spring of 1978, Rite-Mile had developed a vehicle restraint mounted on to engage a vehicle. The hook member, rotated position with the shank pendent when not used, was stored in a downwardly

RITE-HITE CORP. V. KELLEY CO., INC. Cite to 629 P.Supp. 1043 (E.D.Wis, 1986)

(PTX-6h). A physical exhibit of this device was demonstrated at trial (PTX-19). U.S. Patent 4,282,621 (the back was the fact that they were limited in terms of the variations in ICC bars that book also had drawbacks. The main draw-

along which the carriage slides so that the commercialized in the spring of 1980 as the Model ADL-100 Dok-Lok vehicle restraint. (PTX-63), discusing and claiming this device, issued on April 28, 1981. This device was also demonstrated at trial (PTX-181). 28. In 1979, Rite-Hite developed some improvements which further refined this 'pivoted hoak'' restraint. Among other things, the springs are incorporated into opposite sides of the trapezoidal carriage restraint can operate independently of any dock beseler, and rotation of the hook was motorized. It is this version of a restraint with a pivoted hook that was ultimately U.S. Patent 4,264,269 (the '259 Patenti them in the event of rear end collisions. To Rite-Hile conducted surveys of thousands road trailers and also provided Rite-Kite ground. Rite-Hits found that the ICC bar height varied is much as 15 inches from could be accommodated. ICC bars are bars that the Interstate Commerce Commission requires on most trucks to prevent low automobiles from running underneath earn about the variations in ICC bars, of trailers and obtained data from trailer manufacturers. These surveys indicated that ICC bars were present on all overthe with extensive knowledge about the differences that existed between the various 10C bars in terms of shape and height from the

# E. U.S. Patent 4,373,847

inventive efforts. The surveys also showed that "over-the-road" trailers had a suspension "float" of 2 inches to 21/8 inches.

ground, and this variation presented seri-

the legal maximum of 30 inches above the ous problems for Rits-Hite's asrly pre-1978 ller generations (PTX-18) by permitting the hook to rotate against the resistance of a

Float was accommodated in one of the ear-

vehicle restraint that was simple, more rugged and inexpensive, and that could be objectives was cost reduction and simpliffcation. In order to achieve that objective, a manually operated, if desired, was sought. 24. Rite-Hita's development program continued after the introduction of the Model ADL-100, One of the program's

This is the system of the '847 patent and the Kelley Truk Stop. The '847 patent is envited RELEASABLE LOCKING DE-VICE, was filed in the U.S. Patent and Trademark Office on May 4, 1981, and isafter the introduction of the ADL-100, Steven Hipp and Norbert Hahn developed the first of Rise-Hice's MDL vehicle restrellies. 25. In the spring of 1931, about a year sued on February 16, 1983.

carriage. The carriage was blased upward with springs stored in the dock leveler to

hold the carriage with the enclosed hook

dal carriage was developed and added, and the pivoted hook was then mounted in the

22. By late 1978, an adjustable trapezol-

spring.

above the ground when it was not in opera-tion. The carriage was actuated by movement of the ICC bar so that the carriage moved down against the springs as the cruck backed into the dock, The downward

movement of the carriage positioned the hook so that it was always in a good position to be activated and pivoted up to engage the ICC bar. With this device, Rite-Hite found it could accommodate the rest

28. The '847 patent is directed to it new to an adjacent stationary upright atructure such as a dockwall. The device of the '84'? patent has a frame vertically extending up the dockwall and secured to the exposed surface of the wall. It has a hook assemframe for vertical movement between an upper operative position, where it will seapproach to a vehicle locking device or vehiels restraint for securing a parked vehicle bly that has a follower mounted in the

> bulk of the IÇC bars whith its research had indicated would be encountered. The carriage also accommodated "float." This de

the art of restraining trucks, and Rita-Hite filed a patent application resulting in

vice was another substantial advancement

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hook in Its upper operative position but to selectively permit the hook to be released further has a retaining means to retain the The device of the '847 patent lower inoperative position free of the veniele so that the vehicle can be driven away from the wall. The hook ansembly has a horizontal shank portlon extending outwardly from the follower and a vertical cure the vehicle against the wall, to its lower inoperative position. hook portion.

springs which hold the slide so that the slide and the first part of the retaining means are upwardly blased even when not move, as a unit, asveral inches vertically downward when subjected to the forces of restraining a vehicle. As a result, the retaining means and the hook element can means to move together downwardly against the biasing force of the spring to provide downward float. This is a desirbly engaged with the ICC bar. This downable leature, for without it, the device could become "fammed" by the weight of the truck pushing down on the hook assemward float is made possible by heavy dury an inoperative position. Thereby, any bading of the vehicle, such as upon the entry alide, and the two parts of the recaining movement of the hook from an operative to of a forkill truck, will cause the hook, the wardly by a biasing force and has a first part of the retaining means secured to it. A coacing complimental second part of the retaining means is carried by the hook and engages the first part to prevent accidental 27. In addition to the above-described basic structure, the device of the '847 patent includes a slide as a part of the fixed well-mounted trame, which is urged upa truck being loaded.

equivalent devices, and in particular elongated vertically extending devices, could be employed instead of a ratchet. At column second part is a pawl, the description in column 2 starting at line 2 makes it very. particular embodiment. At column 3, line the description makes it clear that other While, in the preferred embodiment described in the '847 patent, the first part of the retaining meens is a ratchet and the clear that the patent is not limited to this

iner, are the equivalent of the ratchet and 4, lines 9-10, the description makes It could be substituted for the pawl. From the tastimony of both experts, the Patent evidence, it is clear that the rack and pinion of Kelly and the threaded shaft of the Taylor, et al., reference, cited by the Exampawl shown in the particular embodiment equally clear that other equivalent devices Office prosecution history, and the other described in the '847 patent.

was also compared to the Model MDL-55
(PTX-125) and the Kelby Truk Stop (PTX-21) systems. The claimed elements in Claims I, 2, 3, 8, 12, and 13 of the '947 patent are found in the MDL, the MDL-65, and the Kelley Truk Stop. Mr. Kjell Erlandsson, who is Kelley's Vice President of Engineering and who testified as an expart witness for Kelley at trial, questioned Truck Stop control box for the purpose of lowering the hook to release it from enfluding that the Kelley rack and phinn by the use of the term "Release" on the whether the word "releasably" was apt in releasably retained the book in its operative position. The term is apt as indicated restraint constructed in accordance with the described embodiment of the '847 patent (PTX-20) was demonstrated at trial and 29. Recognising the advancement in the ark of vehicle restraints represented by the NDL Dock-Lok, Rite-Hite sought and obtained the '847 patent disclosing and claiming this system. A physical MDL truck gagement with a vehicle.

gular area from the smaller semi-chroular ing in a better range of engagement. Also, the vertically travelling book assembly has a smaller sweep or clearance area moving into the operating position to reduce the 30. The value of the invention of the model MDL and '847 patent is not limited traveling hook assembly is a new departure from and an improvement over previous 'pivoted hook'' designs in part because the capture area available to engage an 100 bar by the book was changed to a rectanarea provided by the pivoting hook, result to simplicity of construction or the possibility of manual operation. The vertically

RITE-HITE CORP. V. KELLEY CO., INC. Cite as 629 F.Bupp. 1042 (E.D.Wis. 1984)

This model was also demonstrated at the 나눌 (만1X-123). of interference with things other han the ICC bar. In addition, the pivoting

Rike-Hise and is a current successful prod-uct of Riar-Bite. Over 1,800 of the MDL-55's have been sold, generating salus in the patent and has been commercialized by 33. Kelley did not dispute that this im-proved model MDL-55 device uses the '847 millions of dollars.

> son made these observations at his deposition and continued to acknowledge these

advantages at the trial. In addition, the Model MDL can be used either with or

without a power source.

as there is no such concern with the vertically moving hook assembly. Mr. Erlands-

hook has a tendency to rotate away, where-

patent, Kelley obtains the same advantages ley's Truk Stop is additional evidence of the commercial success of the invention of the 1847 patent. While one can never be certain of the precise causal relationship of commercial success, aevertheless in this case, it appears from all of the evidence that the invention of the '841 patent was a as the MDL-65's Initis! upward float. Kel-34. Similarly, the Kelkey Truk Stop uses rack and pinton instead of the ratchet and paw) of the specific embodiment of the '64T the '847 patent, but by using a motor and very significant factor.

F. The 847 Potent Was Commercialized

As the MDL-55

G. Kelley's Development of Its "Truk Stop " Device

the hook is not initially apringblased up against the ICC bar. At the trial, the

the industry today call "upward" float, i.e.,

road" trucks deflect between about 1 Inch the vertical hook partion of the hook assambly shown in the '847 patent would accommodate the upward float of the 1CC bars. The vertical hook portion of the hook

and 2½ inches, so that in most situations,

evidence established that normal "over-the-

1931 came up with an improved version, the MDL-65. Although the basic device shown in the '847 patent had downward float, this unit did not have what people in

large production quantities of parts when

duction drawings and obtaining quotes on

Measrs. Hip, Hahn, and Swessel in mid-

production prototypes, was completing pro-

Rite-Hite had successfully tested

nation and adoption of the Rite-Hite MDLvertically moving hook through its examieate that Kelley learned about and made its 35. The facus established at trial indi-

aspects of its vehicle restraint, does not negate the infringement of Rice filte's '847 patent. The very foundation of the patent system contemplates that users of a basic 36. Kelley's induation of the vertically moving book and the other elements of the '847 patent is indicative of the value, Furthermore, the fact that Kelley has procured U.S. Patent 4,488,326 (DTX-212), on patent will make improvements with time. Both Kelley and Rita-Hite did so here, but if anything, that enhances the dignity of the importance, and the unobviousness of the invention claimed in the '317 patent the '847 patent "city" trucks is small percentage of the assembly could also, of course, have been made longer to provide additional compen-55, if the ICC bar rises as weight is taken off the truck, an initial bias is provided that increased the versatility of the vertically moving hook. The improved restraint hancan raise the vertically movable hook. This dles not only "over-the-road" trailers but vehicles to be restrained), which generally

....)

sation for the "upward float" of the ICC

32. With the improvement of the MDL-

duction of the ADL-100 Dok-Lok sold by Rita-Hite in April of 1980. In June of 1980, Kalley's response to this first device of 87, Kelley's first knowledge of a works. ole vehicle restraint came with the intro-

have weaker springs and, thus, deflect more than the "over-the-road" trailers. This improved MDL device, the Model MDL-56 vehicle restraint, is disclosed and claimed in U.S. Patent 4,443,150 (PTX-11).

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after Kelley's name engineers viewed, operated, and disassembled Rice-Hite's MDL-

or had available to them as of the end of

December 1981, everything that was possible for them to know about the construction of the Rite-Hite Model MDL-66. They a channel in the support for a slide, a book mounted for vertical movement in the sup-

49. Messre, Bennett and Driest knew,

pending on the device (PTX-93).

in June of 1981, Kelley was still working on Ribe Hite was to propose various communications devices (PtX-64). One year later, communications type devices (PTX-85).

38. In the late summer of 1981, about the time of the introduction of Rite-Hite's Model MDL-65, the Occupational Safety and Realth Administration ("OSHA") issued an instruction (PTX-30), the purpose of which was to allow the use of vehicle restraints without wheel chocks.

straints could be coupled with sales of Rita-Hite dock levelers which would otherwise be sold by Kelley (PIX-36). This was a double injury in the market place. As a result, the representatives found that thair ability to sell dack equipment was ham-pered by the presence of Rice-Hice vehicle line) that gates of Rite-Hite's vehicle re-89. At about this same time, Kelley's sales representatives began expressing increased concerns to Kelley (which was atill without a vehicle restraint in its product restraints.

40. Kelley had no plans for a physical restraint at the time of the OSHA instruccommunication. Knowlng of the long-standing problem, Kelley had failed to rection. Rather, Kelley's focus was still on ognise the solution.

ately on a vehicle restraint to compete against the Rike-Hite Dok-Lok and to cost course of this program, Kelley personnel referred to its vehicle restraint as "Keliey's On Friday, November 13, 1981, John Hogseth (Kelley's Vice President of Marlees than \$1,000 (PTX-32). During the keting) sent a memo to Joseph Driear (Kelley's Director of Engineering) formally requering Mr. Driess to begin work immediversion of the Dok-Lok" (PTX-36).

and a memo at the bottom in Mr. Driege's On the following Monday, Noveme ber 16, 1981, Hogseth's memo (PTX-32) handwriting of the same date indicates that Driege would comply with Mr. Hogseth's requests but that the following were was marked "received" by "Engloeering," ş

(a) Engineering needed a copy of the OSHA regulations that anotion the use nitially required:

of vehicle restraints (this was done four deys later as noted belowy:

(b) The forms! "request" for the prodact development program should be submitted (there is evidence that this was, apparently, never donel;

the operating instruction sheet for the MDL-55 had been received by Engineerment to a memorandum from Hogseth (PTX-21), but other literature, such as an ing on September 17, 1981, as an attach-ADL-100 booklet, was not provided until (c) A copy of the "complete" Rile-Hite Hersture should be sent to Engineering later); and

(d) A sample of the Rite-Hite product should be made available to Engineering (this was done on December 80, 1981, as

rith Rite-Hite,

ents, including the patent claiming the Model ADL-100 restraint (with a pivoting hook), and made notes regarding the claims of the patents (FTX-88). His notes all portray, among other things, the "pivoted hook" configuration shown in the Rite-Hite 48. On the next day, Mr. Driear carefully reviewed coples of certain Rite Kille patdescribed below). patenta.

marked "patent pending" (PTX-93), no search or study was made or opinion given 44. About that time, Kelley's patent atand they discussed the Rite-Hite patents. A)though the Model MDL-55 devices were on what patents might issue on the MDLcorney, Olens Starke, visited Mr. Driear,

was assigned the project number "915" and was assigned to David Bennett, a young enginest working under Mr. Driest's supervision. Mr. Bennett is now decessed. 45. Also, at about this time, the vehicle restraint development project of Kelley Kelley continued to work on communications type systems (PTX-65).

46. A date stamp on the OSHA instrucley's engineering department on Friday, tion indicates that it was received November 20, 1981 (PJX-30).

47. On December 29, 1981, Mr. Bennett wrote a memo in longhand setting forth the

60. On the next day, Robert Kuhns sent a memo (PTX-56) to Mr. Driese and a copy of a publication draft of a Model ADL Service Bulletin that Kelley had obtained RITS-HITE CORP. v. KELLEY CO., INC. Cite at 629 F.Supp. 1042 (E.D.Wit. 1986) device" (PIX-88). The memo sets forth a 'work schedule" for the "trailer anchoring If any, progress had been made in the number of tasks which indicate that little,

on May 6, 1980, stating:

design work up to this point, and a high priority had been given to obtaining addilional information on Rite-Hite's product.

With this (I think George Zehorik has the original) and the "Tuf-Seal Mechanical (MDL Dok-Lok), we should be able to device, which embodied all of the features sketches that have been found of Kalley's 51. By January 12, 1982, TOVE.

A meno and monthly report dated January 14, 1982, from Mr. Driear to Mr. Kuhns

PTX-53), also generally summarizes the work done on project 916 during December

of 1981 as follows: "Conceptual work on trock/trailer anchoving device proceeded

slowly due to higher priority projects."

quests made by Rite-Hile's counsel before algned and witnessed by Kuhns and Driess. Furtharmore, the evidence established at trial indicates that Kelley's practice is to upon this avidance, the earliest stetches of the Truk Stop device were not made by Kelley's engineers until about two weeks sketches and work. However, Kelley was unable to produce any earlier sketches showing a device similar in any way to its Truk Stop, notwithstanding numerous reand during the trial. In fact, on January 16, 1982 (PTX-5T), these sketches were have the first description or sketch of an invention witnessed so as to corroborate the date and provide credible evidence of the date of the Invention. Thus, based claimed in the '847 patent claims 1, 2, 8, 8, 12, and 18, were complete. These first tually commercialized as the Truk Stop. 62. At the trial, Kelley claimed that these January sketches were not the earliest sketches and that they had previous of Rico-Hite's device described above and sketches show the product that was even restraint was finally installed at Kelley's Tuffsal aubsidiary (PTX-129). An hour after the installer left, the Kelley engiaeers, including Mr. Driesr, began inspect graphs of the device were taken then and later placed on file in Kelley's engineering division (PTX-22 through PTX-29). These 26), the disassembled vehicle restraint as well as with a tape measure (PTX-24 and tag on the device (PTX-26). At that time these tags indicated that patents were development of vahicle restraint to compete 48. On December 30, 1981, the previously ordered Model MDL-55 Dok-Lok vehicle ing, disassembling, measuring, operating, and photographing it. Polaroid photophotographs, discussed at trial, show Mr. Driese at the alte of the installation (PTX-PTX-29) next to certain parts, One of these photographs shows the serial number Thus, at the end of 1981, Kelley was still without a defined concept or aignificant

53. By February 23, 1982, the first pro-totype of Kelley's Truk Scop rescraint was complete, operating, and ready for testing. Photographs of this prototype (PIX-43) were taken by Kelley specifically for the purpose of establishing this date.

port, and a ratchet and pawl assembly that

knew the fact that it had a vertical support,

operates by relative movement to position the book on the slide, retain it in the position, and parmit downward float of the skide, hook, and recaining means as a unit

54. On March 1, 1582, the design of the Truk Stop product was relassed at a "show and tell" demonstration, and by about July 1, 1982, the product was available for intrononobvious.

book. Nor do those references suggest a

retaining means for the vertically movable ilda, a vertically movable hook in the slide and retaining means to support the hook fixed in the slide, all vertically movable as

a unit to provide float.

Hite's '259, '161, and '748 patents showing pivotally mounted hooks on a vertical wall. The Examiner was correct in Unding the '847 claims unobvious and patentable thereover, While each single element of the claims may have precedent in the prior art, as is true in most mechanical patents,

The examiner had the best of these references before him; that is, **2**0031

and inexpensive solution to a very long-felt need in the dock equipment industry and ley was well aware of the serious safety hazard, including injurles and even deaths,

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duction to the representatives and producion, shortly after the date projected by Kelley in the fall of 1981 (PTX-82).

en's great deal of thought to the question Hite's vehicle restraint, and that Kelley had made little progress in its own efforts to come up with a competing device until after its engineers had the benefit of the MDL-55 Dok-Lok brochures and inspected, tested, and dismaniled an actual MOL-65. The evidence at trial, both through the testimony of Kelley's personnel and its documentation, shows that Kolley had givof a product that would compete with Rite-絽

mercial impact of the Rite-Hite Dok-Lok restraints, the need for such device, and the response of Kelley. Mr. Kuhns, President of Kelley, during a private showing of demonstrated it side by side with Ritz-Hite MDL-65 and explained the relationship becleking, a Kelley sales representative in Minneapolis in 1981 and 1982, was uncontroverted. That evidence showed the com-Stop in the spring of 1982, The testimony at trial of Robert Entween them to Mr. Englaking. the new Truk 2

# Kelley Has Failed to Prove That the 1817 Patent le Invollé

that Kelley has failed to earry forth its burden that the patent is invalid and holds claims in suit of the 'Bif patent, stating that the claimed combination is obvious and shown in the prior art. The Court finds that the claims in suit are not invalid. Kelley has asserted invelidity of the

### The Claimed Invention le Nouob-CLOUS ä

copying, and unexpected results. Based this issue the Court has (1) determined the acope and content of the prior art, (2) ascertained the difference between the prior art and subject matter claim, (3) determined the level of ordinary skill in the art, and (4) given consideration to the objective eviof nonobviousness such as long-felt need, commercial auccess, failure of others, upon the evidence coupled with an analysis Kelley his alleged that the asserted ciaims are obvious over the prior art. On dence ģ

of this Indicia, the Court finds that the subject matter of claims 1, 2, 3, 8, 12 and 13 are nonobrious.

to Mr. Hipp, et al., for Device For Releaseably Securing A Vehicle To An Adjacent earlier, resulted from the Rite-Hite vehicle patents, which were before the Examiner. Examiner. All of these patents, discussed restraint program. The '621 patant teachaminer, is more pertinent than U.S. Patent 4,264,259 (PTX-1-e), lasted to Mr. Hipp for a Releaseable Locking Device; U.S. Patent 4,267,748 (PTX-1f), issued to Grunewald, et al, for a Releasable Locking Mechanism; and U.S. Patent 4,208,181 (PTX-1d), issued Support, all of which were cited by the 748 07 161 thony, et al., for a Roleaseable Locking Device and which was not before the Exart references during the trial. Many of Along these lines, the Court rejects Mr. Eriandsson's testimony that U.S. Patent ,282,621 (PTX-1-g), which issued to Anthese references were before the Examinar and some of them were not. With respect to the references not before the Examiner, the Court finds that none of these are more partinent than the art before the Examiner. 69. Kelley set forth a number of prior es no more than the '269.

bination to secure a parked vehicle against ed use of that element in the claimed coma stationary upright structure such as a pawi. Kelley put in no evidence that any of the ratchet and pawl references suggestdock wall. Thus, none of the prior art The first category contains ratchet es is based upon Kelley's misaporehension of the cisims as being specific to a rawhet and pawl as an element of the claimed combination. None of the claims is limited to a ratchet and pawl, and Rite-Hite never contended it had invented a ratchet and 60. The plethore of references set forth by Kelley in general fall into two categoand pawl references shown in a montage (DTX-202), The reliance on these referenctems to DTX-202 is of significance in ismue of obviousness. rjes.

The second category of prior art is that shown in DTX-201. These references all relate to some type of vehicle restraint, 뎍

RITE-HITS CORP. V. KELLEY CO., INC. Cita as 629 F.Bupp. tot2 [E.D.Win, 1986)

qualified engineer) suggested by Kelley's expert witness, Mr. Erlandsson, this Court finds that this invention would have been skilled in the art at the time of the invendefinition of the higher level of skill 64. Even if this Court adopts None of those references suggest going to but none shows the claimed combination of the 1847 patent. The closest references to the asserted '847 patent claims are the of Rita-Hita's development team. he system of the 1847 claims with a both contal hook shank mounted to a follower to a vertical support or with a bissed slide and

65. This flading of nonobviousness is further supported in light of the objective the '847 patent provided a solution to the long-felt need that escaped the industry, including Kelley, until after Hipp and Kahn made the invention and Rite-Hite began to sell the invention of the '849 patent as the that time, Kelley concentrated its efforts on communications devices and not physievidence of unobviousness. For axample, cal restraints, and even when charged with coming up with physical restraints, it was Model MDL-55 vehlele restraint. anable to do so.

prototype, which was made in February of 1982 (PTX 43). Such exidence further sup-55 installed on the dock of its Tuli-Seal subsidiary on December 30, 1931. Kelley's the Rite-Hite installation was completed at velopment of the truck restrains that became the Truk Stop, including a witnessed drawing (PTX 67) and other subsequent Indications of the construction of the first up with a solution of a construction for a physical restraint on its own prior to receiving the Rite-Hite MDL-56 literature in the late summer of 1981 and having the MDLofficers and engineers, within hours after Tuf-Seal, were inspecting, operating, photographing, disassembling, and measuring the Riv-Hite MDL-65. Withh a few weeks thereafter, the Kelley documentary records show the first evidence of the de-66. A further indicium of nonobvious ness is copying or imitation by competitors. In this case, Kelley was not able to come ports the argument of unobviousness. plaintiffs' technical expert witness Professor John Straft who stated that the level of skill is relatively bow, and that a person 1980's. The Court adopts the definition of the combination of elements set forth in the claims of the '847 patent asserted here was novel. It proved a worksbie, efficient, protection on what they called the Panic There was some disagreement belevel of ordinary skill in the art in the early was not suggested in any reference. Kelfrom inadvertent and accidental withdrawals of trucks from loading docks and the as early as 1966 when they sought patent tween the parties at the trial about the

need for a practical solution since at least

Stop (DTX-183-8). œ

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er possible to relate commercial success to one specific cause, the lavention encompassed by the 'B4T patent is one algnificant success of both the MDL-55 of Rite-Hite 67. As mentloned earlier, while it is new cause that has resulted in the commercial and the Kelley Truk Stop

> the art, usually managers, might have en ongineering degree. With this definition, tion would not have been abvious to one

the Court finds that the claimed combine-

with several years of design experience in the steel and machinery art would typify the ordinary skill. A few of the workers in

providing locrated float as compared to the structure of the 1847 patent. Similarly, the fact that Rix-Hie's commercial prodno way detracts from the commercial the addition of a motor drive or means for nct represents an improvement that came after the basic invention of the '847 patent Kelley claims that the commercial elosure of the '847 patent. It is, of course, exlometic in the patent law that one cannot avoid infringement of a basic patent, such es the '847 patent, by making certain improvements on the basic structure, such as porated an improvement over the basic dis-Rice-Hite product, the MDL-56, also incorsuccess of the patented atructure.

b. Kelley Has Pailed to Prove Antidpation

69. Kelley has also alleged that the asalthough its evidence was vague on whether it alleged an anticipation under any section of 36 U.S.C. § 102. The Court finds 3 seried claims are shown by the prior art, that Kelley has failed to curry forth burden on this allegation.

distinctly from the chaimed invention that it tion, and operation vary so dreatically and suggestion of an apparatus for restraining right structure. No single reference introduced by Kelley anticipates the claimed invention. Evan if these devices include each of the claimed mechanical elements, their structure, interrelationship, applicacannot be found that these devices show that prior art, such as U.S. Patent 621,858 issued to Schwarz for Easel and a 1977 nal, show the claimed combination in the rion. They are far afield and offer no a parked vehicle against a stationary uprechnical expert, Mr. Erlandsson, stated Ford Automobile Jack and operating manasserted claims. Yet these prior art devices do not relate to the patented inven-70. In particular, at the trial, Kelley's

[, Kelley's Infringement of the '847 Pot-

countercial success in the marketplace through sales of over 1,800 units), and Kel-10) and Kelley's device (PTX-14) as well as demonstrations of various models. In particular, Professor Strait showed how the the drawings of the '847 patent (PTX-10 and PTX-10-A), the Model MDL (PTX-19), the Model MDL-55 (PTX-123) (the lm· proved Model MDL, which has met with asserted claims of the '847 patent read on charts of the '947 patent drawings (PTXfessor Strait, explained the relationship at the trial with the assistance of colored mark "Truk Stop" was proven at trial; To facilitate reading these claims, they were broken down at trial and compared with features and elements of the Kelley device. Rite-Hite's technical axpert witness, Provehicle restraint marketed under the tradeley's Truk Stop device (PTX-21).

by the plaintiffs at trial in PTX 11, 12, and 12. Cfalms 1, 2, 8, 8, 12, and 13 of the '847 patent, as asserted against Kelley's product and in the form as relied upon 13, are as follows:

stationary upright structure, said device a parked vehicle to an adjacent relatively A releasable locking device for securing CLAIM 1

(e) a first means mountable on an exposed surface of the atructure, comprishing .

ment relative thereto between operative (b) a second means mounted on said first means for substantially vertical moveand inoperative modes,

tion of said second means when in an (c) the location of said second means when in an inoperative mode being a predetermined distance beneath the locaoperative mode and in a non-contacting relation with the vehicle,

(d) and third means for releasably retaining said second means in an operative

(e) isid second means including a first mined distance from said first means and the exposed surface of the atructure, one section projecting outwardly a predeter-

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12, and 13 of the '84T patent by the Kelley

71. Infringement of Claims 1, 2, 3,

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The device of claim 1 wherein the third means automatically retains the aecond meana in an operacive mode, and of said first section being mounted dent movement relative thereto along a predetermined substantially vertical on said first means for selective indepen-

CLA1M 12

path, and a second section extending angularly upwardly from sald first section

(a) the first means includes elongated (b) and the first section of the The device of claim 1 wherein tpright guide means,

> and being spaced outwardly a substantally fixed distance from said first

means and the exposed surface of the

structure,

means includes guide-engaging elements

(f) said second means, when in an operaly engage a portion of the parked vehicle

tive mode, being adapted to interlocking-

and said first means,

parked vehicle.

CLAIN 2

first section in an outwardly projecting relation with respect to said first means. A releasable locking device for securing a parked vehicle to an adjacent upright (a) a first means having a first member carried on the one end of said first section and continuously maintaining sald structure, sald device comprising CLAIM 13

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(b) second means mounted on said first [xedly mountable on the structure and a second member mounted on said first being upwardly biased to assume a narmeans for substantially vertical movemember for limited substantially vertical relative movement, said second member mal rest position,

(c) the location of said second means when in an moperative mode being a predetermined distance beneath the locaand Inoperative modes,

(d) and third means for releasably retain-ing said second means in an operative tion of said second means when in an operative mode,

:

means, said first and second elements first means, one end of said first section (e) said third means having a first element carried by the second member of said first means, and a complemental second element carried by sald second movement of said second means from an said second means including a first section projecting outwardly from sald being connected to said first means and being guided thereby for selective relative movement in a predetermined subtantially vertical path, and a second seccoacting with one another to prevent operative mode to an inoperative mode,

ment relative thereto between operative blassd to assume a normal elevated rest (g) said second means, when in an inoperative mode, being adapted to be in a (a) the first means includes a tirst member fixedly mountable on the structure slidably mounted on sald first member for limited independent substantially ver-(b) said second member being upwardly disposed Intermediate to second section lowered nonlocking relation with the exposed surface and a second member The device of claim 1 wherein ikal relative movement,

tion only when a depressive external force exerted on said second mesns, while the latter is retained in an operative mode, exceeds the biasing force ap-(c) said second member and said second and third means being movable as a unit downwardly from said normal rest postposition with respect to said first memplied to said second member.

The device of claim 2 wherein CLAIM 9

(a) the third means includes a first ele-ment carried by said second means and coacting with a complemental second element carried by the second member of said first means to prevent movement of operative said second means from an mode to an Inoperative mode.

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extending angularly upwardly from first section and being spaced out-(g) said second means, when in an operawardly from sald first means,

erative mode, baing adapted to be in a disposed intermediate the second section (h) said second means, when in an Inopnonlocking relation with the parked veand said first means,

his Se

depressive externs! force exerted on said second means, while the letter is retained in an operative mode, exceeds the biasing Upon hearing all of the evidence means being movable downwardly from the normal rest position only when a force applied to said second member. (i) the second member of said first

tical movement between an upper operative Strak showed that the Kelley device, which is directed to a releasable locking device or hiele to an adjacent upright, structure, such as a dockwall, has a frame vertically extending up the dockwall and secured to the exposed surface of the wall, a hook assembly slidably mounted in that frame for ver-Hie's technical expert) and Mr. Erlandsson (Kelley's Vice President of Engineering patent are infinized by Kelley's device. vehicle restraint for securing a parked vepresented at the trial, including the expert testimony of both Professor Strait (Altethat Claims 1, 2, 9, 8, 12, and 13 of the '847 and its technical expert, the Court finds 74. In particular, . Professor

rack and pinlon which operates with a reversible motor to retain the hook in its ley device also has a means in the form of a upper operative position but to selectively permit the book to be released to its inoperin the frame between the upper operative The hook assembly of the Relley device also has a horizontal shank portion, a vertiest hook partion, and a follower that moves position free of the vehicle so that the vehicle can be driven away from the wall. against the wall and a lower inoperative and lower inoperative positions. ative position.

ly engage a partion of the parked vehicle

tive mode, being adapted to intertocking.

force of a truck being loaded providing downward "float" Upward float can also When the ICC bar moves upward, the motor is activated and the book moves up with tive position. As a result, the Truk Stop will move downward when subject to the be accommodated by the Truk Stop unit. pinion, is carried by the hook and engaged the rack to prevent accidental movement of the hook from an operative to an inoperaframe, which is urged upwardly by a blasmental part of the retaining means, the Strait showed that the Truk Stop unit also includes a slide as a part of the fixed ing force in the form of a gas spring and has one part of the locking means, namely, the rack secured to it. A coacting comple-75. In addition, at the trial Professor the ICC bar.

76, During Mr. Erlandsson's cross-examination, the following chart (PTX-136) was developed with respect to Claims 1, 2, 8, 8, and 12:

is operative position. Patanbo v. Don-Jop Co., 762 P.2d 969, 916 (Fed.Ch.1985). To hold otherwise would mullify § 112. D.M.I., Ho., u. Deere & Co., 765 F.2d 1670, pawl for releasably retaining the hook in to interpret these functional tlains, reference must be made to the last graph states that the patences is entitled to s claim covering the means described in the specification and equivalents that perform the stated function. The rack and pinion is interchangeable with a ratchet and pawl and is the clost equivalent of a ratchet and respect to interpreting means plus function language. This is not the proper test. paragraph of 35 U.S.C. § 112. That para-1674 (Fed, Cir. 1986).

(::<u>:</u>)

guage, is butressed by the fact that other ciaims in the '347 patent, which are not asserted have, specifically recite a ratchet and pawl. To limit the broader claims, in the way Kelley asked this Court to do, 79. This finding with respect to the scope of the "means plus function" lanwould go against a rational construction of the claims.

80. Furthermore, the claims are not limlted to a manual device because only one of

CLAIM PART	KELLEY	RTE-HITE COLOR	'847 PATENT	TRUK STOP
FIRST MEANS First Mamber Second Member	Light Blue Dark Blus	Brown Oranga	Frama	Frame Silde
SECOND MEANS	Yellow	Yellow	Hook Assembly	Hook Assembly
THIRD MEANS First Element Second Slement	Dark Red. Light Red	Orean Purple	Pawl Ratchet	Pialon & Worm Rack
BIASING	Orange	Blue	Spring	Spring

This chart shows the direct correlation of the '847 patent claim elements and the

not require an electrical power source to operate, the chains are thereby limited to has a Hite patent is to provide a device that does manual devices. The Court does not find either of Kelley's arguments persuasive. reversible motor that is part of the retaining means. Kelley argued at the trial that its use of a rack and pinion, where the avoids infringement of the asserted claims because the third means for releasably retaining the book in an operative mode as recited in the cisims did not cover the Kelley device. Kelley argued further that because a secondary objective of the Ritepinion is "driven" up the rack by a motor, 77. The Truk Stop device also Truk Stop elementa.

apply the doctrine of equivalents test with asserted here are not, in any way, limited to a ratchet and pawl. In fact, "means plus function" language is used which is means for releasably retaining said second means in an operative mode." During the rial, Kelley's expert witness continued to directed to a desired result, i.a., "third 78. First the broader chaims that are

... 3

pared to the Prior Art

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cifically recite manual operation, and thus such a limitation cannot be read into the many objectives set forth in the specification is to provide a device that is free of an steerifes source. Nonseserted claims speasserted claims.

trine of equivalents. This is so because the Kelley device performs the same function in substantielly the same way to achieve result as the claimed subject matter of the '847 patent. Court finds that Kelley's device infringes the assetted cisims under the doc-91, Even without literal infringement, substantially the some

an infringement search beyond the six put-ent cumbers that Kelley found listed on the Kelley never obtained an opinion from its counsel on the probability or possibility of by its Truk Stop restraint. Furthermore, an infringement search to determine what patents might exist or might be intringed did Kelley ever cause its counsel to make that did not use a pivoting hook in order to The '847 patent did not issue until almost a year after Kelley began to market its Truk Stop truck restraint. Kelley hever made Rite-Nive device's serial number Lags. Nor restraints, and Kelley received a written Hite patents then issued were limited to a piroting hook. Sased on this opinion, Kelby proceeded to develop a truck restraint svoid conflict with the Ribe-Kite patents. 82. At the time Kelley undertook the development of its truck restraint, it reophion from counsel that all of the Bikequested its patent counsel to make a searth of all Rite-Hite patents dealing with truck patents issuing on the MDL-65.

# The Unfair Competition Claims and Counterclaims

84. Based on the testimony of Robert motion picture having been found to be nisleading in its depiction of Kelley's and Truk-Stop promotional motion picture, that On March 16, 1984, the Court preliminarily enjoined Kelley from using its Rite-Hite's truck restraining devices.

it with a film loop which is acceptable to

Kuhns that Kelley has taken the original motion picture off the market, has replaced

finds there is no need for any injunctive this Court found misleading, the Court or using the original motion picture that relief at this time and that the preliminary Rice-Hite, and hes no intention of showing hyunetion may be dissolved.

Structural

Products Co., 749 F.2d at 114.

nonobylousness.

85. At trial, the partles introduced eviterclaims of unfair competition against each other. This evidence falled to establish any need for other injunctive relief or money damages on the part of either party. dence on their respective claims and coun-

# CONCLUSIONS OF LAW

# Source of Applicable Law

claimed invention and the prior art; and (4) objective evidence of nonobviousness, e.g., of others, copying, and unexpected results.

Corp. v. United States, 680 F.2d 1368, 1369, 215 U.S.P.Q. 657 (Fed.Cir.1982). is proper. The law applicable here is that the Federal Circuit and its predecessor courts, the Court of Customs and Patent Appeals and the Court of Claims. South parties and the subject matter, and venue of the United States Court of Appeals for This court has jurisdiction over the

# L. Validity of Patents

Corp. a. Computervision Corps, 132 P.2d tory presumption of validity places the burby clear and convincing evidence on the party asserting invalidity. Perkin-Elmer 834, 221 U.S.P.Q. 669, 674 (Fed.C)r. Sirucjural Rubber Products Co. v. Park Rubber Ca, 749 F.2d 107, 714, 223 U.S. P.Q. 1264, 1269 (Fed.Cir.1984). This statuden of proving facts establishing invalidity this presumption attaches to each claim independently of the other claims. Jones in presumption encompasses presumptions of novelty, donobviousness, and utility—each of which are presumed to be present. ent laws (35 U.S.C. § 282) explicitly states that a patent shall be presumed valid, and Hardy, 727 E.2d 1624, 1528, 220 U.S.P.Q. [02], 1024 (Fed.Cir.1984). Moreover, this 89, Section 282 of the United States pat-187, 83 L.Ed.2d 120 (1984).

RITE-HITE CORP. P. KELLEY CO., INC. Cite as 629 P. Supp. 1062 (E.D. Wis. 1936)

"art" consisted of the work of Rice-Hite's development team as exemplified in Rile. Hita's earlier patents 88. It is a condition of patentability that Invention be nonobvious, 95 U.S.C.

leve) of one of ordinary skill; (2) the types of problems encountered in the art; (3) the prior art solution to those problems; (4) the rapidity with which lanovations are made; Not all of these factors need be considered factors may predominate or are given more [2] 91, Pactors that are considered in determining the level of "ordinary skill in the art" may include: (1) the educational and (5) the sophistication of the technology. weight in a particular case. Environmenin every case, and often one tal Designs, 713 F.2d at 696-97. prior act; (2) the level of ordinary skill in the pertinent art at the time the invention made into: (1) the scope and content of the was made; (3) the differences between the ent validity carries with it a presumption of 383 U.S. 1, 17, 86 S.Ct. 624, 693-94, 15 ousness/nonchviousness under § 103 of the patent laws, that factual inquiries be Rubber the Court mandated, in determining obvi-The statutory presumption of pst-89. In Graham v. John Deere & Co., L.Ed.2d 545, 148 U.S.P.Q. 459, 467 (1966).

8 V

in the art. Furthermore, it is irrelevant in er aspects of the claimed invantion are well scribed as a "combination patent" or a combination" of old elements. Jones, 727 Fi2d at 1528. There is absolutely no basis in the law for treating combinations of old elements differently in determining patentablity, Fromson, 756 F.2d at 1566-58. that difference may serve as one element in "difference" may appear to be alight, but it determining obviousness that all or all othmown, in a plecement manner, in the act, since virtually every patent can be de-92. Additionally, although it is proper to claimed invention and the prior art, because determining the obviousness/nonobviousness Issue, it is improper merely to considcan be the key to success and advancement note the difference existing between the er the difference as the invention. of ordinary skill in the art in the spring of s. The Invention As a Whole Com-11] 90. Section 103 requires the consideration of whether the Invention would or U.S. 1043, 104 S.Ct. 709, 79 L.Ed.2d 173 (1984). The Invention of Claims 1, 2, 3, 8, 12, and 13 of the '847 patent would not Perkin Elmer Corp., 192 F.2d at 884; Jones, 727 F.2d at 1527, 1629-31; Stairon have been obvious as a whole to a person long-felt needs, commercial success, failure mental Designs, Lld. u. Union Oil Co., 113 F.2d 698, 696–97, 218 U.S.P.Q. 865, 867–69 (Fed.Oil.1988), cort. denied, 164

the desirability of the combination or the inventor's beneficial results or the advantage to be derived from combining the the disclosures or teachings of the prior art can be retrospectively combined for purtion obvious unless the art also suggested teachings. Fromson, 165 F.2d at 1556; In re Sernaker, 702 F.2d 989, 995-96, 217 perato, 486 F.2d 685, 657, 179 U.S.P.Q. 730, poses of evaluating the obviousness/nonobviousness issue does not make the combiria-U.S.P.Q. 1, 6-f (Fed,Cir.1983); In re

(3) 93, Moreover, the mere fact that Ina, 721 F.2d 1540, 220 U.S.P.Q. 803, 309 (Fed.Ch.1883), cert. denied, — U.S. ——, 106 S.CL 172, 83 L.Ed.2d 107 (1984). In this case, there was no real vehicle retroduced to that Dok-Lok restraint. The to one of ordinary skill in the art to which that subject matter pertains at the time the Fallure to consider the cisimed invention "as a whole" would be an error of law. W.L. Gore & Associates Inc. v. Garlock 732 F.2d at 894; Jones, 727 F.2d at 1629. invention was made. Perkin Elmor Corp., would not have been obvious "as a whole" straint art or industry when Rite-Hite

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732 (CCPA 1973). There is no such sugges-

nation of features proviously used in two separate prior devices. The Court ex-Ch.1984), a patent for hydraulic acrap shears was held valid and nanobylous even though it specifically stated in the specification that it disclosed and claimed a combi-GMBH v. American Boist and Derrick 94. In Undemann Maschinenfabrik Ca, 730 F.2d 1462, 221 U.S.P.Q. 481 (Fed. too in this case, plained:

rigidly massive scrap. There was nothing whatever of record, therefore, to support the district, court's statement that the claimed machine possessed "snother known procedure operating in a known mannar to produce a known result" or its conclusion that Lindemann (the inventor) knew...that a small sidewall ram could most economically process large serap. Nothing in the references alone or together suggests the claimed invention as a solution to the problem of crushing Lindemann, 730 F.2d at 1462.

elements for the purpose as set forth in the claims is nowhere suggested and is a nonexistence at the time of the invention, the fact remains that the combination of these obvious advance in the art of vehicle re-95. Thus, even if all the elements recited in the claims of the '847 patent were in

# b. The Advance in the Art Provided by the Invantion in Suit

more Festener Corp. a. Illinais Tool Works, Inc., 739 F.2d 1673, 1675-76, 222 U.S.P.Q. 144, 746-47 (Fed.Ch.1884), cort. demied, — U.S. —, 105 S.Ct. 1188, 85 L.Ed. 438 (1985). In fact, such avidence of the objective considerations must be considered as part of all the evidence in all cases. In re Piasecki, 745 B.2d 1468, 1471, han may be the most pertinent, cogent, probative, and revealing evidence available ourness/nonobylousness issue and is of to sid in reaching a conclusion on the obvisubstantial alguissence in this case. Sim-[4] 96. The objective evidence of nonobviousness discussed by the Court in Gra-

223 U.S.P.Q. 785 (Fed.Cir.1984). teste include:

long-fest need in the industry to which it applied? Ortho Pharmaceutical Corp. 1. American Hospital Supply Corp., 634 P.2d 89, 93, 190 U.S.P. 6, 297, 400–01. [fth. Or. 1976]; Ree Chainbell, Inc. 10. (1) Did the patented invention fulfill a General Kinomatics Corp., 363 F.2d 836, 837, 150 U.S.P.Q. 319, 320 (7th Cir. 1966)

(2) Did others by and fall to meet the need that the invention ultimately satis-

Ca. u. Anchor Hocking Glass Corp., 362 F.2d. 123, 124, 150 U.S.P.Q. 1, 2 (7th the pacented invention meet (3) Did the patented invention meet with substantist success upon its hitroduction to the market? Rex Chainbell, Inc., 383 F.2d at 837; Continental Can Chr.1966),

AMP, fine. a. Moles Products Ca., 329 F.Supp. 1884, 1871, 170 U.S.P.Q. 2, 7 (N.D.III.1971). (4) Did the accused infringer recognize that the invention was truly meritorious?

97, Evidence may often establish that an invention which appeared at first blush to have been obvious was not in view of the accondary considerations. Fronson, 155 F.2d at 1556. When a structure such as the '847 patent goes undiscovered for years and then enjoys substantial commercial success, there is strong evidence of unobvi-OUR DESA.

ers, including Kelley prior to copying, had falled. Allas Powder Co. v. E.L. DuPon! de Nemours & Co., 750 F.24 1669, 1674–76, 224 U.S.P.Q. 409 (Fed.Clr.1984); Lang u 1806, 188 U.S.P.Q. 468 (7th Clr.1975). At made, no known device accomplished the years. Rice-Hits's invention claimed in the Preson Corp., 646 F.Supp. 933, 946-46, 217 U.S.P.Q. 839 (D.Del.1982); Trecor, Inc. u Newlell-Packard Co., 619 F.2d 1288, the time Rite-Hite's claimed invention was .98. One cannot escape the fact that the solutions to dock hazards by preventing 847 patent satisfied a long and widely-felt need, and Rite-Hite succeeded where othvehicle separation sluded the industry for

RITE-HITE CORP. 4. KELLEY CO., INC. Cite as 629 F.Supp. 1042 (E.D.Wit., 1996)

Inc. v. Mine Sofety Appliances Co., 211 U.S.P.Q. 1126, 1140 (C.D.Ca.11981). Indeed, the instation and copying by Kelley was strong evidence that Kelley believed that invention by in the Rite-file product.

Ackermans v. General Motors Corp., 202
F.2d 642, 646, 98 U.S.P.Q. 231 (4th Cir.
1958), cert. denied, 346 U.S. 996, 73 S.C.. 1139, 97 L.Et. 1403 (1963). ticular need in a unique manner. That is 99, One of the advantages of Ritoresults in a similar manner. Rite-Kite's invention, in fact, astisfied this par-Hite's Invention is that it uses a simple means to maintain the yestraint in the elevated, operative position. The '847 patent discloses a ratchet and pawl as one means

nvention. Jones, 727 F.2d at 1581.

10!. A further indicium of nonobycousasserted claims of the '647 patent (PTX 31). There is no question that a substantial claimed configuration. Fromson, 766 F.2d et 1566-68; Magnavox Company v. Chica-oo Denamic Industries, 201 U.S.P.Q. 26, ness was the evidence that Rite-Hite's invention has also had considerable commercial success. Rite-Hite has soid well over 1,800 MDL-66 restraints falling within the cause of this commercial success is the go Dynamic Industries, 261 U.S.P.Q. 27 (N.D.III.1971). But none of the asserted claims recite a ments coacting in a novel and unobvious combination went unrecognized for years to retain the hook in its upper position. ratchet and pawl or even just hook retaining means. Rather, a combination of elemanner are recited. The advantage of the as well as racks and pinlon gears, were well known. This supports the unobvious-ness of the patent in suit. Jones, 727 F.2d at 1530. If anything, Kelley's reliance on by the industry, though ratchets and pawis,

N, The Prior Art Does Not Show the Claimed Invention

> pawl combinations, shows that no one be-fore Ribe-Hite, even with the art before him, ever thought of the combination of the

patent for its Panic Stop using ratchet and

as an automobile (ack, as well as its own

eartler devices in the vehicle industry, such

713 F.2d 760, 771 (Ped.Cir.1983), cert. de-nied, 465 U.S. 1026, 109 S.Ct. 1284, 79 L.Ed.2d 687 (1984). The decermination that a claimed invention is "anticipated" under [6,7] 102. To assert that a pateilt a party must demonstrate identity of inven-§ 102 is a factual determination. Lindswann Moschinenfodrik GWBH u. American Boin & Derrick Co., 730 F.2d 1452, claim is anticipated under 35 U.S.C. § 102, tlon. Kalman v. Kimberly-Clark Corp., 1468 (Fed.Chr, 1984).

invention by an alleged infringer is strong

[5] 100. The imitation of the patented evidence of what it thinks of the patent in

1847 patent.

the world ought to think. Anderson Ca. v.

Sears, Roebusk & Co., 165 F.Supp. 611,

Non-transport and the second s

suit and is persuasive of what the rest of

ple prior art reference, or that the claimed invention was previously known or embodied in a single prior art reference, or that the claimed Invention was previously lass all of the same elements are found in [8] 103; One who seeks such a finding of anticipation must show that each and every elemant of the patent claim is found. as arranged in the claim, either expressly described or implicitly described under appropriate principles of inherency, in a sitemown or embodied in a single prior art device or practice. Lindemann Maschi nenjobrik GMBH, 120 F.2d at 1458. 'Un exactly the same situation and united in the 628, 119 U.S.P.Q. 236, 244 (N.D.II.1968), modified on other prounds 266 F.2d 755, 121 U.S.P.Q. 181 (Tth Chr.1959), Here, Keiley's failure to develop a vehicle restraint prior to having access to Rite-Hite's vehicle restraint and Kelley's adoption of the vertically moving hook and other elements claimed in the '847 patent provide additional evidence of unobviousness. Lang, 645 P.Supp. at 946-46. In fact, Kelley's vehicle restraint, which was identified by Kelley's Lok" (PTX-36), was nonexistent until Kelspected, disassembled, and photographed the Rice-Hite product. General Monitors, parsonnel as "Kelley's version of the Dokey obtained literature relating to Rite-Hite's vehicle restraint and actually in-

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there is no enticipation." Mational Business Systems, Inc. a.M. International, Inc., 546 F.Supp. 840, 950 (N.D.III.1982), aft. 748 F.2d 1227 (7th Cir.1984), cert. denica, U.S. —, 105 S.Cu. 2345, 35 I.Ed. 24 861 (1985).

# Kellsy's Infringement of the '847 Pat-

estate that whoever without suthority makes, uses, or sells any patented invention within the United States during the term of the patent infringes the patent. 35 U.S.C. § 271(a). The patent owner has the pundarance of the evidence. This burden pronderance of the evidence. This burden of aquivalents as well as to literatinifringement. Hughes Afternoff Co. v. United States, 717 F.24 1851, 1961, 219 U.S.P.Q. 473 (Fed.Cir.1983).

(10, 11) 106. The issue of infringement raises at least two questions: (1) what is patented, and (2) has what is patented been made, used, or sold by another. The first is a question of law; the second is a question of fact. SS/H Equipment S.A. w. U.S. International Trade Commission, 718 F.24 386, 786, 218 U.S.P.Q. 678, 688, 688 (Fed.Cir.1962); Fromson v. Advance Offset (Fed.Cir.1963); From 100 (Fed.Cir.1983). In this case, Rice-Rite obtained a patent claiming a vehicle restraint having a combination of elements performing recited functions. The Trad Stop device, made and sold by Kelbey, infringes the asserted claims.

# a. Literal Infringement

[12] 106. If an allegedly infringing product falls literally within the claim when the words are given their proper meaning, infringement is made out, and that is the end of the inquiry. Greaver Tank and My, Co, v. Linde Air Products Co, 839 U.S.

3, In a patent infringement action, patent chims measure the invention and define the bound-actes of patent protection. Rests w Elkhart

608, 607, 70 S.Ct. 864, 866-56, 94 L.Ed. 1097, 85 U.S.P.Q. 828 (1950).

or the patentee's commercial device. Mor-tin w Barber, 165 F.2d 1864, 1667, 226 U.S.P.Q. 239, 235 (Fed.Cir.1985). The claims of a patent are to be construed in 49, 86 S.Ct., 708, 713, 15 L.Ed.2d 572, 148 U.S.P.Q. 479, 482 (1966). Each claim must Office, the prior art and comparison with other claims) may be considered. Graham, 383 U.S. at 32-83, 86 S.O. at 701; Froming or interpreting a claim, a whole host of light of the specification, and both are to be read with a view to ascertaining the inversbe considered as defining a separate invention history in the Patent and Tradematk tion. United States v. Adoms, 383 U.S. 39, tion. Jones, 727 F.2d at 1628. In construfacts (e.g., patent disclosure, the prosecu-The question of intringement is resolved by comparing the accused device with the claims of the palent, not with the structure described in the patent 10#, 720 F.2d at 1569-71.

# (1) "Means Plus Punction" Claims

[15] 108. The independent claims in the B47 patent utilize "means plus function" language. Title 86 U.S.C. § 112 is used to interpret these functional claims and states:

An element in a daim for a combination may be expressed as a means or step for performing a specified function without the recial of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding abuncture, material or acts described in the specification and equivalents thereof. [Emphasis added.]

To interpret the statute as limited to a particular means set forth in the specification would be to audify that provision of § 112. The patentee's claim covers all combinations which utilize as the stated means the structure described in the specification for performing the stated function and also all combinations that utilize any

Walding & Boller Works Inc., 447 F.26 517, 171 U.S.P.Q. 129 (7th Cir.1971).

RITE-HITS CORP. V. KELLEY CO., INC. Ch. 439 FJupp. 1042 (ED.WIL. 1946)

structure which is the equivalent of that described structure insofar as it performs L Co., 766 F.2d 1870, 1874 (vea.Car.1380). The Court in Pakumbo v Don-Joy Co., 762 forming the stated function. The Court lo Polumbo added that an Important factor in persons reasonably akilled in the art would know of the Interchangeability of an ingre-F.2d 969, 975 (Fed.Cir. May 20, 1985), recognized that a "means plus function" claim is construed "to cover both the disclosed structure and equivalents thereof" for perthe determination of equivalents is whether dient not contained in the patent with one the stated function. D.M.I., Inc. p. Deere Co., 765 F.2d 1870, 1874 (Fed.Cir.1986). that was. Palumbo, at 97T.

specification, (3) the prosecution history of "means" claim may be determined, and the '847 patent, the amendments to the tion of the Taylor, et al., patent makes it the patent, (4) other claims in the patent, whether the Kelley device is a § 112 equivslent of the described embodiment is a Here, looking to the prosecution history of claims and description following the citaclear that the acopa of equivalents for the the language of the claim, (2) the patent and (5) expert testimony. Once these factors are weighed, the scope of the question of fact. Palumbo, at 975–76. [17, 18] 109, In construing such a claim a number of factors may be considered: (1) third means is broad.

[19] 110. In addition, Kelley cannot esor performs additional functions or adds 1984), cert. denied, — U.S. —, 106 S.Cr. 306, 83 L.Ed.2d 240, 224 U.S.P.Q. 616 840, 848, 221 U.S.P.Q. 657 (Fed.Cir.1984), cape infringement by the mere fact that its features or is an improvement. Amstar 1481-82, 221 U.S.P.Q. 649, 663 (Fed.Cir. Luring Co. v. MTD Products, Inc., 731 F.2d Truk Stop restraint is more or less efficient than the subject matter Rite-Hite claimed Corp. v. Entrivolech Corp., 730 F.2d 1476, (1984); Radio Steel & Hanafacturing Co. v. MTD Products, Inc., 781 F.2d 840, 848 221 U.S.P.Q. 667 (Fed.Cir. 306, 224 U.S. P.Q. 616 (1984); Radio Steel & Manufac cort. dented, - U.S. -, 106 S.Ct. 119, 83 L.Ed.2d 62 (1984); Atlas Powder

of the committee of the communication to a second of the communication to a manual device or one with communications opporatue.

(20) 111. Furthermore, the broader claims asserted here cannot be construed to be limited to a ratchet and pawl as the 'third means," or to manual operation. This is w is applicable here because Claims 5, 6, and 7 of the '847 patent, which are not asserted, rectie that the third means includes a ratchet and pawl, and Claims 4 and 9 rectie menual operation. These narrow claim limitations cannot be read into the broader claims to avoid infringement D.M.I., 755 F.2d at 1874.

# b. Doctrine of Equivolents

Oraver Tank and Mg. Co. v. Linda Air Producta Co., 339 U.S. 805, 608, 70 S.Ct. 854, 866, 94 L.Ed. 1097, 85 U.S.P.Q. 328 (1950). The doctrine of equivalents is de-{21, 22} 112. Kelley cannot avold a finding of infingement by arguing that its device falls outside a literal reading of the claims of the '847 patent. Although the claims of a patent are the measure of the protected invention, the judicially created "doctrine of equivalents" sods istitude and breadth to the application of claim language in order to prevent the infringer rom perpetrating "a fraud on a patent." algned to protect a patentee, such as Rite-Hite, from an infringer, such as Kelley, who appropriates the invention even if the infringer avoids the literal language of the claims. As such, a finding of infringement Is in order here because Ketley's davice the same way to achieve substantially the las Powder Co., 750 F.2d at 1579-81; Sanilary Refrigerator Co. v. Winters, 280 U.S. 30, 42, 60 S.Ct. 9, 13, 74 L.Ed. 147 (1929); Graver Tank, 339 U.S. at 601, 70 S.CL at 865-56. Under this doctrine, Rite-Hits's claims are intringed by Kelley's imitation even if Kelley did not precisely clone every performs the same function in substantially haral detail of Rite-Hite's claimed inven-(21, 22) 112, Kelley cannot avold same result as the claimed invention.

629 FEDERAL SUPPLEMENT The range of equivalents

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mark a distinct step in the progress of the set." Ziegier u Philipp Petroleum Co., 482 F.2d 858, 876, 177 U.S.P.Q. 481 (5th Cr.1973), oct. denied, 414 U.S. 1979, 84 Cir.1941). The broadest protection is given fore performed, a wholly novel device, or S.Ct. 697, 38 L.Ed.2d 486, 189 U.S.P.O. 1 patent because it claims a vehicle restraint to which a patent claim is entitled is on a th Reymolds Products, Inc., 322 F.Supp. Corp. 9, Genea Inc., 124 F.2d 725, 728 (7th to "a patent covering a function never beone of such novelty and importance as to that functions in a nove] manner, unlike any of the earlier teatraints of Rite-Bite or iavendon. John Zink Co. n. National Air roil Burner Co., 613 F.2d 647, 666, 206 U.S.P.Q. 494 (3th Chr.1980); Julien u. Gomes & Andre Ivacior Repairs, Inc., 438 F.Supp. 768, 768, 196 U.S.P.Q. 224 (M.D.La. 1977), affd, 607 F.2d 1004 (6th Cir.1979). In particular, when a patented invention has had "significant commercial success" and are not to be limited to the identical means and made of operation shown in the pstent. Graver Tank, 289 U.S. at 608-08, 10 S.Ct. at 856; King-Seeley Thermos Co. 713, 720 (N.DJIL1970); Chicago Patené iliding scale depending on the nature of the or the patent is of the "pionaer type," the patent claims are to be construed liberally 1973). The Rite-Hite patent is a ploneer (23, 24) 113.

not only to so-called ploneer patents, but ingly, the cisims of a patent are entitled to the scope of the invention. Ziegler, 483 F.2d at 869. In this instance, because of the significant advance in the art presented (85, 26) 114. Broad protection is given also patents that make a substantial contribution to an existing art and patents that consist of a combination of old ingredients Graver Tank, 839 U.S. at 508, 70 S.C., at 856; Julien, 138 F.Supp. at 768. Accorda range of equivelents commensurate with by the Rite-Hite '847 patent and the manilest commercial auccess, the claims are givthat produce new and useful results. the broadest possible interpretation.

[27] 116. In addition, the more use by Kelley of a component that may be more applicated than that disclosed in the specific embodiment of the Rite-Hite patent does not allow Kelley to escape an approthon. Hughes Afreraft Co., 117 F.2d at 1365-66, Allas Powder Co., 766 F.2d at 1879-81; Bendix Corp. v. United States, 600 F.2d 1864, 1382, 220 Ct.Cl, 601, 294 priste range of equivalents and thereby avoid infringement of the claimed inven-U.S.P.Q. 617, 631 (1979). Rite-Hite's Right to Recover Prejudgment Interest

would have been paying in royalites. General Motors Corp. a Devez Corp., 461 U.S. 646, 108 S.Ct. 2068, 76 L.Ed.2d 211 (1983). interest as provided In 36 U.S.C. § 284 in order to provent the intringer from having the benefit of the use of the money which it [28] 116. In addition to the other relief recoverable for infringement of its patent, the patentos should recover prejudgment

[29] 117. The enserted claims of the '847 patent are not trivalid and are intring-ed by Kelley by making and selling the Iruk Stop vehicle restraint.

 Multiplied Domages and Attorneys' Fees Are Not Warranted 118, Under 35 U.S.C. § 284, multiplied found or assessed may be swarded by the Court. Kelley's activities here do not wardamages up to three times the amount rant such an award.

anyone else.

119. The activities of Kelley and the circumstances of this case are not sufficlently exceptional to prompt an award of attorneys' fees under 35 U.S.C. § 285.

STAY OF EXECUTION

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of injunction pending appeal. The motion is technically premature because a notice of appeal has not yet been filed, but the Court has the authority to grant a stay conditloned on the movent's filing of a notice of 120. Kelley has moved for a stay ppeal within a specified period.

SAUNDERS V. STATE OF N.Y. Cite as 429 F. Strpp. 1067 (N.D.N.Y. 1936) Under Fed.R.Clv.P. 62(c)

[31, 32] 121,

appellee. Providence Journal Co. v. Federal Bureau of Investigation, 695 F.2d 889 bly harming the appellant, and granting of the stay will cause only slight harm to the to the litigation; and (4) that a stay is in the public interest. Adams a Walker, 488 solute probability of success on the merits tion would destroy the status quo, irreparts. the Court may in its discretion suspend a pending appeal can show: (1) that it is suffer treparable injury, (3) that a stay would not substantially harm other parties F.2d 1064, 1065 (7th Cir.1978); Dacker w U.S. Department of Labor, 486 F.Supp. 837, 844 (E.D.Wis.1980). A showing of abon appeal need not be anade if the injuncfinal judgment granting an Injunction if the party secking suspension of the judgment likely to prevail on the merits on appeal (2) that unless a stay is granted it will

(43) 122. Upon consideration of the foregoing factors and the affidavit of Kelout hond should be allowed pending Kelley which has been submitted in comerc. I conclude that a stay of the injunction with-

A CONTRACTOR OF THE PROPERTY O

U.S.C. § 289, and that Kelley is liable to the plaintiffs for damages, including pre-judgment interest, as a result of its indefendant Kelley Company, Inc., its offi-cera, employees, agents, and those in privi-ty with them are enjoined from infringing claimed vehicle restraint pursuant to 35 U.S. Patent 4,873,847 by the manufacture or sale of vehicle restraints sold under the trademark Truk Stop and embodying the IT IS THEREFORE ORDERED that the fringement.

.....

ed pursuant to Fed.R.Civ.P. 62(c), but further, this stay shall expire within thirty . IT IS FURTHER ORDERED that Keley's motion for a stay of the above-described injunction pending appeal is grantdays of the filing date of this decision and order unless a notice of appeal within that period

Edgar SAUNDERS, Plainiff,

Mivision of State Police of the State of capacily as an investigator in the Diviployee of the Division of State Police of dividually and in his capacity as an individually and in his capacity on an Department, Who are at this Time, Unknown, Individually and in their official capacities as members of the Rens-Richard Crist, individually and in his sion of State Police of the State of New York, Michael Cryon, individually and in his capacity as on investigotor in the Division of State Police of the State of New York, Gerald Looney, Individually and in his official capacity as an emthe State of New York and Various Employees of the Division of State Police of the State of New York, Individually and in their official and/or super-Rengieloer County, Emmanuel Ned, Ininvestigator in the Rengialger County Sheriffs Department, William Pokeda, investigator in the Rensselaer County ees of the Renntelper County Sheriff's seiger County Sheriff's Department, The STATE OF NEW YORK, the Division York, the County of Rensusabler, the County, Robert Krogh, Individually and in his capacity as Under-Sheriff of Sheriffs Department, Various Employof State Police of the State of New Rengsalser County Sheriff's Department, Bugene Baton, Individuelly and In his capacity as Sheriff of Renselace

No. 85-CV-393.

United States District Court, N.D. New York.

March 5, 1936

Upon a motion to dismits § 1983 claims arising out of a state eriminal case

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Appendix 5

# MI FEDERAL REPORTER, 2d SERIES

mission abuses its discretion by declining to by a respondent of goods known to the ant as well as the public interest, the Comrelease the bond merely because of sales

makes other arguments complainant at the time of the agreement. which we seed not address. Blocraft also

### CONCLUSION

posted pursuant to the Temporary Cease The Commission's denials of Blocraft's requests for return or cancelladon of bonds were an abuse of discretion. Its order is and Desist Order issued Jatuary 10, 1990,



In re Mark A. VAECK, Wipa Chungfatupornehal and Lee McIntosh,

United States Court of Appeals, Federal Circuit. No. 91-1120.

vention directed to use of genetic engineer and Interferences affirmed an examiner's taken. The Court of Appeals, Rich, Ciruit Judge, held that: (1) patent application was Inventor sought patent for claimed in ing techniques for production of insecticidal proteins. The United States Patent and Trademark Office Board of Patent Appeals rejection of certain claims, and appeal was improperly rejected on ground of prima claims were too general to enable person facle obviousness, and (2) patent application was properly rejected to extent that skilled in art to make and use claimed nvention without undue experimentation

Affirmed in part, reversed in part.

Mayer, Circuit Judge, dissented and

# 1. Patents @314(6)

patent is sought is legal question which court independently reviews, though based upon Patent and Trademark Office's underlying factual findings, which court reviews Obviousness of invention for which under clearly erroneous standard. 35 U.S.C.A. § 108,

# 2, Patents 4=16(2)

prior art references, court considers whether prior art would have suggested to those or art would also have revealed that in so of ordinary skill in art that they should make elaimed composition or device, or skill would have reasonable expectation of success; both suggestion and reasonable expectation of success must be found in prior art, not in applicant's disclosure. 35 In coviewing rejection of invention for patent as obvious in view of combination of carry out claimed process, and whether primaking or carrying out, those of ordinary expectation of success must be found U.S.C.A. § 108.

# J. Patenta 4-16,26

ticidal proteins was improperly rejected on ground of prime facte obviousness; prior art did not disclose or suggest expression insecticidally active protein, or convey to Patent application for genetic enginearing techniques for production of insec-In cyanobacteria of chimeric gene encoding those of ordinary skill reasonable expects. tion of success in doing so, 35 U.S.C.A.

Oct. 21, 1991,

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## 4. Patents 599

To be patentable, specification of patent must enable any person skilled in art to which it pertains to make and use chaimed invention without undue experimentation, 86 U.S.C.A. § 112,

### Patenta 🌤99

son skilled in art to make and use claimed Patent application for using genetic enimeering techniques to produce insecticidal proteins was properly rejected to extent that claims were too general to enable perinvention without undue experimentation;

Cle so 947 F.2d 444 [Fed Cle, 1991] IN RE VAECK

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claim referred to use of cyanobacteria in prising some 150 different genera, with general as host organism, despite fact that successful use of any one type in manner cyanobacteria were diverse and relatively poorly studied group of organisms, comcalled for in invention being unpredictable. 35 U.S.C.A. § 112.

### 9. Pakenis (1989)

and how to use invention as broadly as it is requirement for patentability, there must lustrative examples or terminology, to teach those of ordinary skill how to make quired to disclose every species encomby their claims, even in uppredictable art, in order to salisfy enablement be sufficient disclosure, either through Il-Although patent applicants are not reclaimed. 35 U.S.C.A.' § 112, passed

Teddy S. Gron, Associate Sol, Office of In C. MeLeod, Ian C. MeLeod, P.C., Okemos, Mich., argued for appallant.

the Sol, of Arlington, Va., argued for appellee. With him on the brief were Fred E. McKelvey, Sol. and Richard E. Schafer, Associate Sol.

Before RICH, ARCHER, and MAYER, Circuit Judges,

# RICH, Circuit Judge.

porating a DNA Pragment Containing a as a Biocontrol Agent" as unpatentable under 35 U.S.C. § 108, as wall as the refecapplication Serial No. 07/021,405, filed March 4, 1987, tilled "Hybrid Genes Incor-Gene Coding for an Insecticidal Protein, Plasmids, Transformed Cyanobacteria Expressing Such Protein and Method for Use This appeal is from the September 12, Office (PTO) Board of Patent Appeals and Interferences (Board), affirming the examiner's rejection of claims 1-48 and 50-52 of 1890 decision of the Patent and Trademark

cloning and expression have been described in the o'Parrell, 853 F,2d 894, 895-99, 7 U.S.P.Q.2d 1673, 1674-77 (Fed.Cir.1988), and . All living relis can be classified into one of two broad groups, processystes and exceptyotes. Saide vecebulary and techniques for gene ere not repraied here,

cells that do not have a distinct muckeus; their DNA floats throughout the cellular cycoplatum. In contrast, the cells of exercyotic organisms signe and years have a distinct madeus wherein shelr DNA resides. such as man, other animals, plants, protozoa

tion of claims 1-48 and 60-51 under 35 U.S.C. § 112, first paragraph, for lack of enablement. We reverse the \$ 103 rejection. The \$ 112 rejection is affirmed in part and reversed in part.

## BACKGROUND

### The Invention

cost method of producing the insecticiós! thus rendering this method prohibitively black files. Those swamp-owelling pests are the source of numerous human health problems, including malaria. It is known that certain species of the naturally-occurproteins ("endotoxins") that are toxic to these insects. Prior art methods of combatting the insects involved spreading or spraying crystalline spores of the insectlei dal Bacillus proteins over swamps. The spores were environmentally unstablo. however, and would often sink to the bottom of a swamp before being consumed, expensive. Hence the need for a lower-Bacillus proteins in high volume, with apuse of genetic enginsering techniques tor production of proceins that are toxic to ring Bacillus genus of hacteria produce ingects such as laryee of mosquitos and The claimed invention is directed to the plication in a more stable vehicle.

the cyanobacteria are capable of oxygenic when Bacillus proteins are produced withris. Although both evanobacteria and bachave been referred to as "blue-green algae") are unique among procaryotes in that photosynthesis. The cyanobacteria grow sumed by masquitos and black flies. Thus, ing for the production of the inscaleddal Bacillus proteins within hast cyanobacteteris are members of the procuryote 1 king. dom, the cyanobacteria (which in the past on top of swamps where they are con-As desoribed by appellants, the claimed subject matter meets this need by provid-

The processivers comprise organisms formed of

in transformed? eyanobacterial hosts according to the claimed invention, the prestargeted insects advantageously guaranthe insecticide in the food of the tees direct uptake by the Insects. ance of

it (i.a., hybrid) gene comprising (1) a gene cein, united with (2) a DNA promoter effective for expressing ' the Bacillus gene in a host cyanobatterium, so as to produce the More particularly, the subject matter of derived from a bacterium of the Bacillus genus whase product is an insecticidal prothe application on appeal includes a chimer-Jestred Insecticidal protain,

The claims on appeal are 1-48 and 50-52, claims remaining in the application.

1. A chirreric gene capable of being ex-(a) a DNA fragment comprising a propressed in Cyanobacteria cells compris-Claim 1 reads:

the above protein or coding for a prolein having substantial sequence homology to the active protein. (b) at least one DNA fragment coding for an insecticidally active protein produced by a Badillus strain, or coding for an insecticidally active truncated form of moter region which is effective for expression of a DNA fragment in a Cyanobacterium; and

the DNA fragments being linked so that

therefrom are directed to a hybrid plasmid Independent claim 33 and claims 34-48 which depend therefrom recite a cyanobac-Claims 2-15, which depend from claim 1, ers, and selectable markers.<sup>6</sup> Independent claim 16 and claims 17-81 which depend vector which includes the chimeric gene of claim 1. Chim 32 recites a batterial strain. recite preferred Bacillus species, promotthe gene is expressed.

have successfully laken up the foreign Becilian DNA such that the DNA information has become a permanent part of the bost cyanobacteria, so he replicated as now syanobacteria are "Pransformed" cyanobacteria are those that

"Expression" of a gene refers to the produc-tion of the protein which the gene emoodest more specifically, it is the process of stander-ring information from a gene (which constats of

of claim 1. Claims 60-51 red te an insecticiular plasmid that appellants have depositdal composition. Claim 62 recites a partic Lerium which expresses the chimeric

# B. Appellants' Disclosure

nechocysils 6863 promoter for the rubisco operon, is utilized instead of the Lambda cialms on appeal detail the transformation ing a particular insecticidal protein ("B.1. 8") from Bacillus thurnguentis var. irree the Ps. promoter from the backeriophage Lambda (a virus of E. coli). In another example, a different promoter, i.e., the Sy-The working examples relevant to the nechocystis 6803 cells are transformed with a plasmid comprising (1) a gene encodlansis, linked to (2) a particular promoter, as sources of insecticidal protein; and nine Anaaystis, Synechococous, Agmenellum, Aphanocopsa, Gloecepsa, Nostoc, Ana baena and Ffremyllia) as useful hosts. of a single strain of cyanobacteria, be-Symechooystis 6803, In one example, Sy-In addition to describing the claimed invention in generic terms, appellants' specilication discloses two particular species of genera of cyanobacteria (Synechocystis, Bacillus (B. thuringiensis, B. sphaerleus) P<sub>L</sub> promoter.

# G The Prior Art

A total of eleven prior art reserves were cited and applied, in various combinations, against the claims on appeal.

reference aited against all of the rejected claitna, is to determine whether chloroplast pacteria. To that end Dzelzkains discloses eric gene comprising a chloroplast promot-The focus of Dzelzkalus, the primary promoter sequences can tonction in cyanothe expression in cyanobacteria of a chim-

Chloramphenical is an anithtolicy CAP is an entyme which destroys ethoramphenical and

as from S. ook.

thus imparts realstance thereto.

DNA) via mesenger RNA to ribosomes where a specific protein is made.

Letable markens or "marker genes" refer to antibiationestalance conferring DNA fragments attached to the gene being expressed, which selection of successfully trans-5. In the context of the claimed invention, formed cyanobacteria. faciliate the

6. 12 Nucleic Acids Res. 8917 (1984).

ports that the nucleotide sequence 14-8 base pairs preceding the transcription stark site "resembles a good Escherichia coli promoter," but that the sequence 35 base for transcription of the gene encoding inse-1,6-bisphosphate carboxylase. It re-Nierzwicki-Bauer 14 identifies in the cyanobacterium Anadaena 1120 the start site rock, the large subunit of the encyme ribupairs before the start site does not. Cite to 1647 F.3d 458 (Fed. Cir. 1993) terring genes for selection purposes is a ing certain Bacillus Insecticidal proteins in ensyme chloramphenicol acetyl transferase gene; this usa of antibiotic resistance-contively disclose expression of genes encod-Importantly, Dzelzkalns teaches the use of the CAT gene as a "marker" common technique in genetic angineering. Sekar I, Sekar II, and Ganesan to collecencoding the

IN RE YABOK

or sequence fused to a gene

various proteins formed by fusion of cer-Reins II studies expression in S. coti of Chauval 15 discloses host-vector systems nechocystls 6808, in which the autibiotic resistance-conferring neo gene is udiized for gene cloning in the cyanobacterium Sy as a selectable marker.

tain foreign DNA sequences with the neo designed for transformation of the cyanoan antibiotic-resistant gene linked to chromosoms! DNA from the Synechococcus Kolowsky 12 discloses chimeric plasmids bacterium Symechococcus R2,

cloned gene, detrimental effects on cell

tered such as suboptimal expression of the growth of overexpressed, highly hydrophobic proteins, and rapid turnover of some gene products. To address these problems,

berg states, problems may still be encoun-

erature-sensitive repressor gene of the bacteriophage Lambda, While the eyanoback-

ria are attractive organisma for tha cloning of genes involved in photosynthesis, Fried-

the bacterial hoats B. megalerium, B. sub-

tilis and E. coli.

Friedderg 11 discloses the transformation of the cyanobacterium Anacystis nidulans R2 by a plasmid vector comprising the O.P. operator-promoter region and a tempeyanəbacterium.

hicles which, it states, have "considerable potential for use as vectors the expression of which can be controlled in Anadys-

Friedbarg teaches the use of the disclosed Lambda regulatory signals in plasmid ve-

(such as those encoding Bacillus proteins) nas bacteria. The host cells are killed by this treatment, but the resulting pesticidal compositions exhibit prolonged taxic activi-Barnes, United States Patent No. 4,696, 455, is directed to the treatment with stabilizing chemical reagents of pesticides produced by expression of beterologous genes in host microbial cells such as Pestudomoly when exposed to the anvironment larget pesta. species of cyanobacteria (Fremyella diplosiphon and Anacystis nidulars), as well has in wire of DNA-dependent RNA poymerases " purified from two different

specifici

Miller " compares the inlustion

....)

flow contained to the gene. Initiation specifiedly in the ability of the R&A polymerase to initiate this process specifically at a stickly on the DNA ing an RNA molecule that includes the Informa-In DNA, and then moves through the gene make

Comm. 748

. 137 Biachiem, and Biophys. Res. (1986).

(1984). 14. BI Prop North Appel Sti. USA 5961

> 10, 189 Mal Gen. Genee 183 (1953). 11. 203 had Gen Gener 505 (1986).

9. 33 Gane 151 (1985).

204 Mol. Gen. Gener, 185 (1986). 29 Gent 211 (1984).

27 Gent 289 (1984). 낟

s. RNA polymeram, the enzyme responsible for making RNA from DNA, blids at specific nu-clooside sequences (promoters) in front of genes

12. 140 J. Bacrertology 246 (1979).

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D, The Grounds of Rejection

The § 103 Rejections

above. hosts for the expression of heterologous bacteria as heterologous hosts for expresof cyanobacteria to serve as transformed genes. In the absence of evidence to the iner contended that it would have been obvious to one of ordinary skill in the art to gene in the vectors of Dzelzkalna in order w obtain high level expression of the Bacil. ius genes in the transformed cyanobacter ria. The examiner further contended that would have been obvious to use eyanogion of the claimed genes due to the ability lus, and the advantages of expressing such larger quantities of the protein. The examsubstitute the Bacillus genes taught by Sekar I, Sekar II, and Ganesan for the CAT structural gene encodes CAT rather than insecticidally active protein. However, the examiner pointed out, Sekar I, Jekar II. cidally active proteins produced by Bacilgenes in hetarologous is hosts to obtain knowledged that the chimeric gene and transformed hast of Dzelskalns differ from and Ganesan teach genes encoding insectiand Gamesan. The examiner stated that ble of being highly expressed in a cyano-sacterium, said gene comprising a promoter region effective for expression in a cyagene encoding GAT. The examiner acthe claimed invention in that the former's nobacterium operably linked to a structural application) were rejected as unpatentable Ozelzkalns in view of Sekar I or Sekar II Daelakains discloses a chimeric gene capa-(which include all independent claims in the U.S.C. § 103 based upon Claims 1-6, 16-21, 33-38, 47-48 and

18. Denotes different species ar arganism.

In chemical cases, a claim may be so broad as to not be supported by [the] disclosure, in which case at its rejected as unwarranted by 19. MPEP 756.03(n), "Correspondence of Claim and Disclosurs," provides in part the disclosure ...

NPSP 18663(4), "Undue Breadth," provides

(I) applications directed to Inventions in arts where the results are unpredictable, the discharge of a single species ratality does not aprovide an adequate basis to support genetic claims. An re Sed, 1938 C.D. 723; 497 G.G.

vention as a whole was prima facie obvious. contrary, the examiner contended,

Dretzkalns in combination with Sekar I, other references discussed in Part C against various groups of dependent claims clonal rejections were made in view of Sekar II, and Ganesan, and further in view which we need not address here. All addi-Additional rejections were entered

as its opinion while adding a few comments, The legal conclusion of obviousness does not require absolute certainty, the Board added, but only a reasonable expectation of success, citing in re O'Far-Cir.1988). In view of the disclosures of the prior art, the Board concluded, one of ordinary skill in the art would have been moth rated by a reasonable expectation of success to make the substitution suggested by basically adopting the examiner's Answer reli, 863 P.2d 894, 7 U.S.P.Q.2d 1673 (Fed. The Board affirmed the \$ 103 rejections, the examinet.

2, The § 112 Rejection

be required of the art worker to practice the claimed invention, in view of the unpredictability in the art, the breadth of the claims, the limited number of working eximples and the limited guidance provided sure was enabling only for claims limited in cedure (MPEP) provisions 706,08(n) " and (2) to as support, the examiner tack the position that undue experimentation would paregraph, on the ground that the discloaccordance with the apacification as filed. Citing Manual of Palent Examining Pro-"The examinar also rejected claims 1-48 and 50-51 under 35 U.S.C. § 112, that

\$46. This is because in arts such as shemlisty is so not obvious from the disclosure of one species, what other species will work. In red Detailed, 1940 C.D. \$51; \$18 O.G. \$25 gives this general role: "It is well estited that in easts involving chemicals and chemical compounds, which differ redicably to facility for the property which differ soldies and chemical compounds, which differ redicably to facilities into either by the numeralism of a sufficient number of the members of a group or by other appropriate language, that the chemical compliation included in the claims are capable of accomplishing the desired result."

s reasonable expectation of success. See In re Dow Chemical Co., 887 F.2d 469, 473, 6 U.S.P.Q.2d 1629, 1631 (Fed.Chr.1988). Both the suggestion and the reasonable expectation of success must be tounded in the prior art, not in the applicant's disclo-With respect to un. a reasonable expectation of success. IN RE VAECE.

8ure. 1d.

ris, without more, does not render obvious gene encoding Bacillus insectidas proteins for the CAT gene utilized for selecresistance conferring genes in cyanobactethe expression of unrelated genes in cyanoactive protein, or convey to those of ordinary skill a reasonable expectation of sucis no suggestion in Deeltkalns, the primary reference cled against all claims, of subsir-tuting in the disclosed plasmid a structural tion purposes. The expression of antibiotic cess in daing so. More particularly, there obviousness of the claimed subject matter. The prior art simply does not disclose or suggest the expression in cyanobacteria of a chimeric gens encoding an insecticidally [3] We agree with appellants that the PTO has not established the prime facie bacteria for unrelated purposes.

these references disclose expression of Bacillus genes encoding insecticidal proteins In certain transformed bacterial hosts, no gest expression of such genes in transsecondary references Sekar I, Sekar II, and as well as in the bacterium E. coli. While where do these references disclase or sug-The PTO argues that the substitution of hsecticidal Bacillus genes for CAT marker genes in cyanobactaria is suggested by the Ganesan, which collectively disclose expresproteins in two species of host Bacillus sion of genes encoding Beatilus inserticidal bacteris (B. megatorium and B. sublifis) formed cyanobacterial nosts.

While it is true that bacteria and cyanobacteria are now both classified as procaryotes, that fact alone is not sufficient to phasizes similarity between bacteria and cyanobactoria, namely, that these are both procaryotle organisms, and argues that this fact would suggest to those of ordinary skill the use of cyanobacteria as hosts for expression of the claimed chimeric genes. motivate the art worker as the PTO con-To remedy this deficiency, the PTO em-

predictability, the examiner stated that

fore the level of unpredictability regard-ing hetarologous gene expression in this large, diverse and relatively poorly studsubject of intensive investigation and this work is limited to a few genera. There-(t)he cyanobacteria comprise a large ganisms has only recently become the and diverse group of photosynthetic bacteria including large numbers of species in some 160 different genera including Synechocyztia, Anacystia, Synechococcus, Agmenellum, Nostoc, Anabaena, etc. The molecular biology of these or ied group of processyotes is high....

art, would not have enabled one having ordinary skill in the art to practice the out undue experimentation. In re Fisher, 427 F.2d 838, 166 U.S.P.Q. 18 (OCPA 1970)." gree of unpredictability in this particular broad scope of the claimed invention with-The Board affirmed, noting that "the Umited guidance in the specification, considered in light of the relatively high do-

### OPTINION

Obviousaers

prima facia obvious within the meaning of 35 U.S.C. § 103. Obviousness is a legal question which this court independently reviews, though based upon underlying factual findings which we review under the clearly erroneous standard. In re Wood-ruff, 919 F.2d 1875, 1877, 16 U.S.P.Q.2d 1934, 1936 (Fed.Cr.1990). [1] We first address whether the PTO erred in rejecting the claims on appeal as

and (2) whether the prior art would also have revealed that in so making or carrydavice, or carry out the claimed process; the prior art would have suggested to those of ordinary skill in the art that they should make the claimed composition or ng out, those of ordinary skill would have [2] Where claimed subject matter has been rejected as obvious in view of a combination of prior art references, a proper analysis under \$ 103 requires, inter alla, consideration of two factors: (1) whether

PAGE 41/43 \* RCVD AT 8/13/2004 10:02:14 AM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/1 \* DNIS:8729306 \* CSID:412 566 6099 \* DURATION (mm-ss):19-14

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cyanobactoria tencis to rebut, rather than support, the PYO's position that one would consider the cyerobacteria effectively in-terchangeable with bacteria as hosts for cent uncertainty regarding the biology of ria and bacteria are not identical; they are classified as two separate divisions of the kingdom Procaryolae, 11 Moreover, 11 is only in recent years that the biology of cysnobactaria has been clarified, as evidenced by references in the prior art to "blue green algae." Such evidence of re-As the PYO concedes, cyanobacteexpression of the claimed gene.

quence (the -35 region) does not. While Miller speaks of certain promoters of the bacteriophage lambda that are recognized suggesting differences in the structures of both eyanobacterial and S. coli RNA polymerases, it also discloses that these promotere exhibited differing strengths when exposed to the different polymerases. Differing sensitivities of the respective polymerases to an inhibitor are also disclosed, certain nucleotide sequence (i.e., the -10 but that another nearby nucleotide asexample, Merzwicki-Bauer reports that a consensus sequence) in a particular cyanobatterium resembles an E. coli promoter, references discussed above, none of these additional references disclose or suggest that cyanobacteria eauld serve as hosts for expression of genes encoding Bacillus in secticidal proteirs. In fact, these addition. s) references suggest as much about differences batween cyanobacteria and bacteria as they do about similarities. For tion. We disigree. As with the Obelekalus, Sekar I, Sekar II, and Ganesan quence homology between bactaria and cyanobacteria. The PTO argued that such homology is a further suggestion to one of As with the it contended disclose cartain amino acid seordinary akill to attempt the claimed inven-2 idditional secondary references, not cited gainet any independent claim (Le., Friedberg, Miller, and Niarzwicki-Bauer), which At oral argument the PTO referred the initiation complexes. ` 25

1. Stedenar's Medical Dictionery 1139 (24th ed. 1983) (definition of "Protestyrotee"). Protestyrotee organisms are commonly classified according to the following taxonomic hierarchy: Kingdom; the following taxonomic hierarchy: Kingdom;

cyanobacteria would be equally attractive hosts for expression of unrelated heterologous genes, such as the elsimed genes enfor the capability of undergoing oxygenic photosynthesis is what makes the cyanoever, these references do not suggest that conclude that eyanobacteria are attractive hosts for expression of any and all heterologous genes. Again, we can not. The relevant prior art does indicate that cyanobacteria are attractive hosts for expression of both native and heterologous genes involved in photosynthesis (not surpelsingly art would lead those of ordinary skill coding Bacillus insecticidal proteins. bacteria unique among procaryotes). The PTO asks, us to

protain, and further predicted that If a gene coding for a protain were to be substiribosomal RNA gene was translated into tuted, extensive translation might result. as the appellants therein pointed out, the ribosomai RNA gene is not normally trensliminary evidence that the transcript of the ference between the prior art and the claim while the claimed invention substituted s gene coding for a predetermined protein. Id. at 901, T U.S.P.Q.2d at 1679. Although, lated into protein, Polisky mentioned preproducing a "predetermined protein in a stable form" in a transformed bacterial at Issue was that in Polisky, the neterologous gene was a gene for ribosomal RNA, 853 F,2d at 895, 1 U.S.P.Q.2d at art publication (the Polisky reference) whose three suthors included two of the three coinventor-appellants. The main dif-The cited references included a prior In O'Farrell, this court affirmed an obviousness rejection of a claim to a method for Id, We thus affirmed, explaining that host 1674.

the prior art explicitly auggested the substitution that is the difference between and presented preliminary evidence sugthe claimed invention and the prior art, be used to make proteins. Division; Cless, Order, Femily: Genus. Species. J. Bergey's Manuel of Systematic Bectenology 1603 (1983).

Cie as 947 F.34 448 (Fed. Cb. 1991) IN RE VAECK and evidence auggesting that it Pollsky contained detailed enabling invention, a suggestion to modify the prior art to practice the claimed invenmethodology for practicing the claimed

id, at 901-02, 7 U.S.P.Q.2d at 1679-80. would be successful.

suggestion, explicit or implicit, of the substitution that is the difference between the over, the "reasonable expectation of sucpresent here. Accordingly, we reverse the In contrast with the situation in O'For-relf, the prior art in this ease offers no claimed invantion and the prior art. Morecose" that was present in O'Farrell is not 4 109 rejections.

## B. Enablement

menkation-required is "undue." Id. at 736-37, B U.S.P.Q.24 at 1404. Bnablement, like obviousness, is a question of law which we independently review, although based upon underlying factual findings which we review for clear error. See ich at 735, 8 perimentation may be required is not fatal: the issue is whether the amount of expert-2 Wands, 868 F.2d 731, 737, 8 U.S.P.Q.2d That some exg 11.2 requires, intor also, that the specification of a patent anable any person skilled in the art to which it pertains to make and use the claimed invention. Although the statute does not say so, enablement requires that the specification teach those in the art to make and use the invention with-[4] The first paragraph of 35 U.S.C. out "undue experimentation." In 1400, 1404 (Fed,Cir.1988). U.S.P.Q.2d at 1402.

oneering," and that this should entitle them to ciaims of broad scope. Narrower claims would provide no real protection, appellants argua, because the level of skill in this art is so high, art workers could easily avold the claims. Given the disclosure in their appollants assert that their invention is "pi-[6] In response to the § 112 rejection,

22. The enablement rejection in this case was not based upon a post-cling date state of the art, as in the rest system, 539 F.21 595, 60-57, 194 in the rest system, 259 F.21 595, 60-57, 194 in the rest corp. s. Philips Puraleum United Strike Strike Corp. s. Philips Puraleum Co., 863 F.24 1247, 1351, 9 U.S.P.Q.24 1441, 1444 (Fed.Cl., 1989) (cling Hogen); Hormone

bacteria, using a variety of promoters and Bocilius DNA, and could easily determine whether or not the active Bacillus protein specification, appellants contend that any skilled microbiologist could construct vectors and transform many different eyanowas successfully expressed by the cyanobacteria.

42

ployed in the working examples of uppeblants' specification, and only nine genera of cyanobacteria are mentioned in the entire tions. Moreover, we note that only one particular species of cyanobacteria is empoorly studied group of organisms, comprising some 160 different genera, and that heterologous gene expression in cyanobacteria is "unpredictable." Appellants have not effectively disputed thase asserand we need not address the issue here. 14th the exception of claims 47 and 48, the olsims rejected under § 112 are not limited to any particular genus or species of cyanobacteria. The PTO's position is that the cyanobacteria are a diverse and relatively The PTO made no sinding on whether the claimed invention is indeed "ploneering," document.

correlation to the scope of enablement proscope of the claims must bear a reasonable vided by the specification).15 Accordingly, tion between the narrow disclosure in appellants' specification and the broad scope of protection sought in the claims encourpassing gene expression in any and all cys-889, 166 U.S.P.Q. 18, 24 (CCPA 1970) (the first paragraph of § 112 requires that the tive in the claimed invention, we are not persuaded that the PTO erred in rejecting paragraph. There is no reasonable correlanobacteria. See In re Pisher, 127 F.2d 833, well as the limited disclosure by appellants of particular cychobacterial genera operaclaims 1-46 and 50-51 under § 112, first plete understanding of the blobegy of cyanobacteria as of appellants' illing date, as Taking into account the relatively incom-

Research Found, Inc. v. Generisch, Inc., 304 F.2d 1538, 1568-59, 13 U.S.P.G.2d 1039, 1047-48 F.2d 1518, 1568-59, 13 U.S.P.G.2d 1039, 1047-48 Inc., 1900) (directing district court, on Feel Feel of Regar and United State Steel on the enablement analysis of Fisher), est, eart directing the U.S. — 111 S.Ct. 1434, et), eart directing to 1051.

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we affirm the § 112 rejectiva as to those

egited in claims 1-46 and 50-51 without the disclosure of an invention involving a or electrical element. See Fisher, 427 R.2d at 339, 168 U.S.P.Q. at 24. In this case, we agree with the PTO that appellants' limited disclosure does not enable one of ordinary those encompassed by the claimed genus possess the disclosed utility. Where, as here, a claimed genus represents a diverse and relatively poorly understood group of microorganisms, the required level of disclosure will be greater than, for example, skill to make and use the invention as now gy,23 to teach those of ordinity skill how to make and how to use the invention as broadly as it is claimed. This means that art worker to determine, without undue experimentation, which species among all "predictable" factor such is a mechanical close every species encompassed by their claims, even in an uncredictable art. In 18 Angastadt, 537 F.28, 438, 602-33, 190 the disclosure must adequately guide the in their specification. It is well socted that U.S.P.Q. 214, 218 (CCPA 1976). However, there must be sufficient diclosure, either through illustrativa examples or terminolopatent applicants in art areas currently debe allowed generic claims encompassing more than the particular species disclosed patent applicants are not required to disas "unpredictable" must nover [8] In so doing we do not imply and ue experimentation.

The PFO did not separately address these claims, nor Indicate why they should be encompassing all types of cyanobacteria. Remaining dependent claim 47 recites a eric gene of claim 1, wherein the cyanobacterium is selected from among the genera which depends from claim 47, is ilmited to the cyanobacterium Synachecyriis 6303. treated in the same manter as the claims cyanobacterium which expresses the chim-Claim 48, Anceystis and Synechoeystis.

epasider the effect of Hogen and Its progent on Figure 3 analysis of when an knowners about the allowed to "dominate the feture patentable Inventions of others." Fisher, 427 P.28 at 838, 146 U.S.P.O. at 24.

Bacillus proteins, we note what appears to tion of chalms 47-48 under § 112 will not be expression of genes encoding particular be an extensive understanding in the prior art of the numerous Bacillus proteins having taxicity to various insects. The rejec-Although these claims are not limited t sustained.

### CONCLUSION

The rejection of claims 1-48 and 50-52 urder 35 U.S.C. § 103 is reversed. The rejection of claims 1-46 and 50-51 under 35 U.S.C. § 112, first paragraph, is affirmed and the rejection of claims 47 and 48 thereunder is reversed

AFFIRMED-IN-PART, REVERSED-IN-PART

MAYER, Circuit Judge, dissenting.

as though the examiner and board did not exist. Even if I thought this opinion were more persussive than the board's, I could take to retry the entire case on appeal." R.2d 874, 877, 229 U.S.P.Q. 668, 671 (Fed. Cr. 1986). But that is precisaly what the court has permitted here. The PTO concycted a thorough examination of the prior art surrounding this patent application and concluded the claims would have been obviops. The board's decision based on the examiner's answer which comprehensively explains the rejection is persuasive and shaws how the evidence supports the legal conclusion that the claims would have been obvious. Yet, the court ignores all this and conducts its own examination, if you will, An appeal is not a second opportunity to Perrai America, Inc. v. Paper Converting Machine Co., 832 F.2d 581, 584, 1 tan Corp. v. Appliance Values Corp., 190 try a case or prosecute a patent application, and we should not silow parties to "under-U.S.P.Q.2d 1621, 1624 (Fed.Ch.1987); Ea-

more than objective enablement. In re Marroc est, 439 P.24 220, 221, 169 U.S.P.O. SVT, 189 (CCPA 1917). Now such a teaching is set forth, eliher by the use of illustrative enamples of broad terminology, is trelevant. Id. 23, The first paragraph of § 112 requires nothing

error to apply 16% (COLA) to hourly reites of attorneys whose time was dalmed at \$75 Chaims Court erred in applying 18% cost of living adjustment (COLA) to paralegal fees aration of equitable adjustment claim; (2) not a "civil action" within meaning of the BAIA, and thus contractor was not entitled to recover consultant fees incurred in prepthat: (1) prosecution of equitable adjustment clain before contracting officer was application in part and denied it in part. Contractor sought reconsideration. The notion, and held that contractor was enth tled to recover additional amount representing consultant fees and expenses. Government appealed. The Court of Appeals, Bennatt, Senior Circuit Judge, held original hearing, the Claims Court, Regranded W. Gloson, J., 21 Ct.Ct. 658, granted Claims Court, 22 CLCs. 24T, granted the Access to Justice Act (EAJA) after settlement of equitable adjustment claim. awarded under the EAJA; and (3) an hour.

1, United States 117(12)

Access to Justice Art (EAJA), and thus contractor was not entitled to recover fees incurred by contract claim consultant for preparation of equitable adjustment claim. clain before contracting officer was not "chill action" within meaning of the Equal Prosecution of equitable adjustment unsisaliable. I would affirm on that basis.

See publication Words and Phrases is other judicial constructions and 28 U.S.C.A. § 2412.

2. United States @147(6)

a waiver of sovereign immunity which must be strictly construed. 28 U.S.C.A. Equal Access to Justice Act (EAJA) is

S. United States 4-147(4)

(EAJA), court may adjust statutory cap governing rate of attorney fees upward to in formulating an award of attorney fees under the Equal Access to Justice Act account for an increase in cost of living. 28 U.S.C.A. § 2412(d)(2)(A)(d).

Oct. 22, 1981 S.

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not join it because it misparceires the role

record we are sound by the PTO's Interpretation of the evidence because it is not clearly errontous and its conclusion is clearly erroneque. In re Woodruff, 919 F.2d 1675, 1577, 18 U.S.P.Q.2d 1934, 1936 Andstron v. City of Bessether City, 470 U.S. 554, 574, 105 S.C., 1604, 1511-12, 84 L.Edad 518 (1985). The mere denomquirement that they be respected unless (Ped.Ch.1990); In re Kulling, 897 R.2d 1147, 1149, 14 U.S.P.Q.2d 1056, 1057 (Fed. Gr.1990). There may be more than one way to look at the prior and but on this (notice) matters afresh and ignore the reinstian of obviousness as a question of law does not give the court license to decide the tions of fact. Grahom u John Deere Co., 383 U.S. 1, 17, 86 S.Ct. 684, 693-94, 16 L.Ed.1d 546, 148 U.S.P.Q. 459, 467 (1968); Jurgens v. Rekay, 927 F.2d 1652, 1660, 18 "[w]tere there are two parmissible views of the evidence, the factfinder's choice between them cannot be clearly erroneous." and what the prior art teaches are all ques-U.S.P.Q.2d 1081, 1087 (Fed.Cir.1991). And the similarity between the prior art and the claims, the level of ordinary skill in the art, The scope and content of the prior art.

LEVERNIER CONSTRUCTION, INC. Plaintiff-Appellet. The UNITED STATES, Defendant-Appellant

United States Court of Appeals, Paderal Circuit. No. 81-5054

Construction contractor sought attor-fees and expenses under the Equal